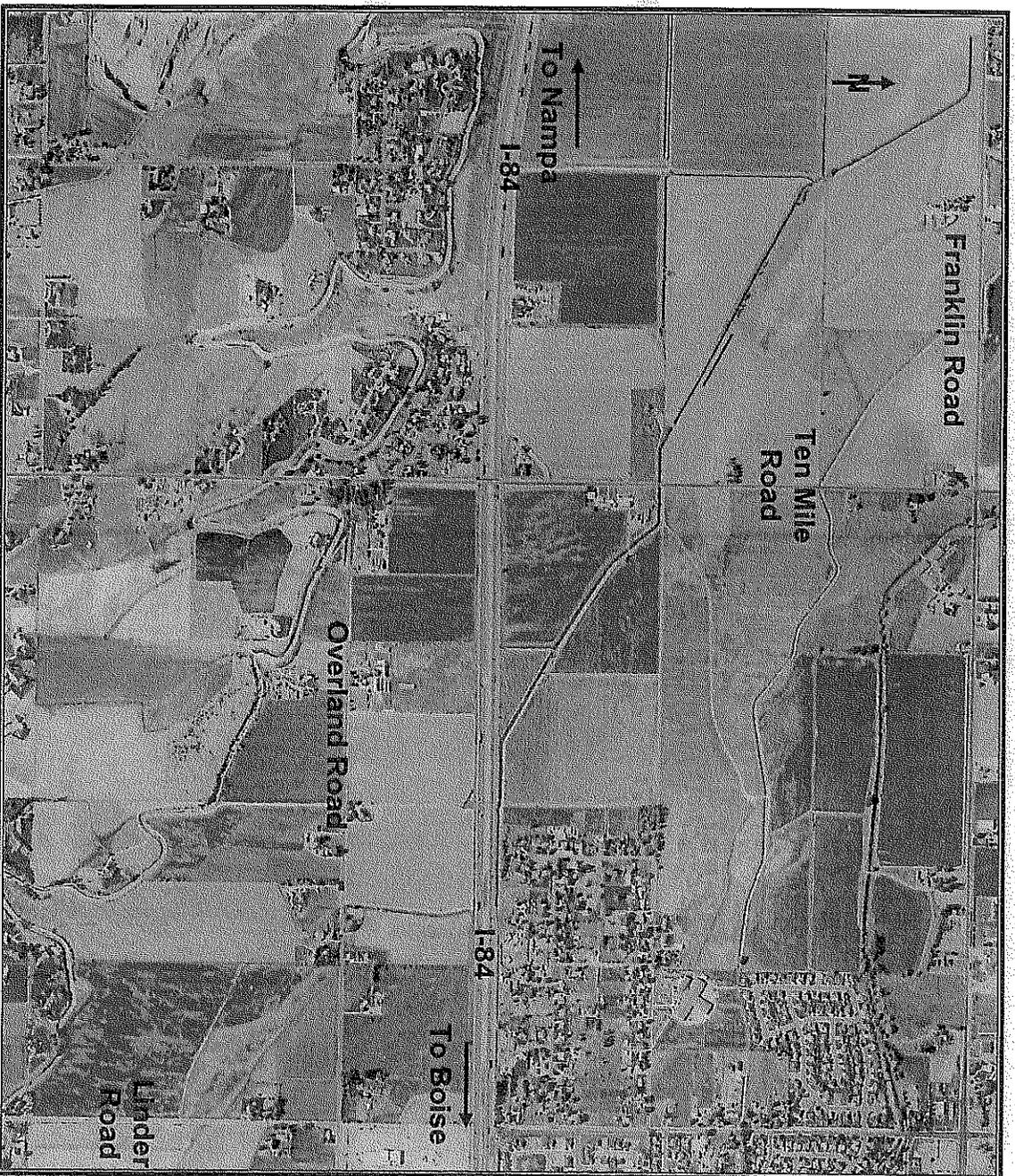


# FINANCING & IMPLEMENTATION PLAN

## I-84, TEN MILE ACCESS STUDY

Project No. ST-84-1(542)42    Agreement No. 5851    Key No. 9349



Prepared for: Idaho Transportation Department

Prepared by: H. W. Lochner, Inc.

June 2005

## PROJECT FINANCING & IMPLEMENTATION

At the outset of the I-84 Ten Mile Interchange Access Study, the cost of a major interchange project far exceeded known revenue sources. A variety of innovative financing tools were anticipated to be necessary for project success; including a variety of construction staging scenarios. With the passage of the GARVEE Bill, much has changed with the funding for the project. A new opportunity presents itself that should enable the Idaho Transportation Department (ITD), Ada County Highway Department (ACHD) and the City of Meridian to achieve the goal of a new interchange at Ten Mile Road within a much shortened time horizon.

Consequently, this report will now focus on the keys elements to a successful implementation program that enables District 3 of ITD to implement and open a new interchange at Ten Mile Road and I-84 by 2011. While the financing program is now far less complicated, if success is measured by a 2011 opening date, the commitments and cooperation needed from all participating agencies and the private sector are still critical.

### Keys to Success

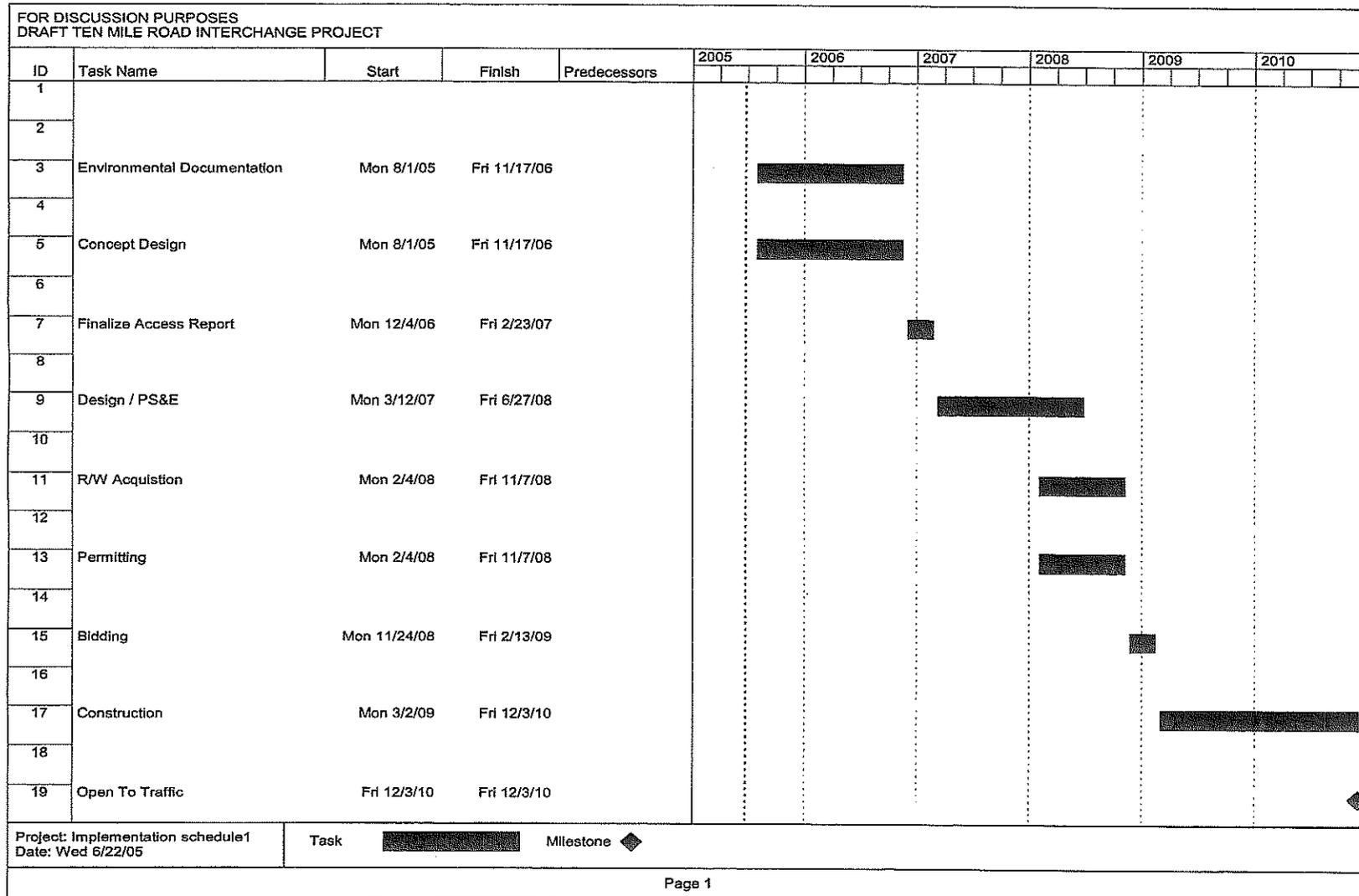
The Ten Mile Access Report was completed and submitted to FHWA in May of 2005. The findings and conclusions of that report support the need for a new interchange on I-84 at Ten Mile Road. Based upon our evaluation, if the goal is to open a new interchange at Ten Mile Road by 2011, there are three “keys to success,” as follows:

- Expedited Environmental Review, Alternatives Analysis and Concept Design;
- Interagency Cooperation; and
- Coordination & Implementation of Needed Supporting Projects.

**Environmental Review & Concept Design:** Based upon the environmental scan completed as part of the Access Study Report, a NEPA Environmental Assessment (EA) appears to be the appropriate level of environmental documentation for this project. Applying a normal and reasonable schedule, a NEPA EA should take 12 – 18 months to complete. To maintain the project timeline for completion by 2011, a preliminary project schedule was developed for planning purposes as illustrated in Figure 1. This schedule indicates that the Concept Report and supporting documents should begin at the same time and start as soon as possible (preferably in the 2<sup>nd</sup> or 3<sup>rd</sup> quarter of 2005).

**Interagency Cooperation:** The success of the Ten Mile Access Study Report is due in large part to the leadership of ITD and the cooperation extended by the ACHD, the City of Meridian, FHWA and COMPASS. For success to continue, each agency must continue to participate and cooperate, with an even greater intensity and focus on a ribbon cutting by 2011. Each agency must continue to support the project, including implementation of needed supporting projects.

FIGURE 1: PRELIMINARY PROJECT SCHEDULE



**Coordination & Implementation of Needed Supporting Projects:** For a new interchange at Ten Mile Road and I-84 to function efficiently, improvements to I-84 and nearby local roads are also required. Figure 2 provides a color coded map, identifying the various levels of supporting projects included in the Ten Mile Access Report, as follows:

- The Ten Mile Road Interchange Project as currently envisioned;
- Supporting Area Improvements, already completed;
- Needed Area Improvements, currently programmed;
- Needed Area Improvements, not currently programmed;
- Other Area Programmed Improvements; and
- Other Long Range Planned Improvements.

For a new interchange on I-84 and Ten Mile Road to be successful and work efficiently, three categories of projects should be implemented, as follows:

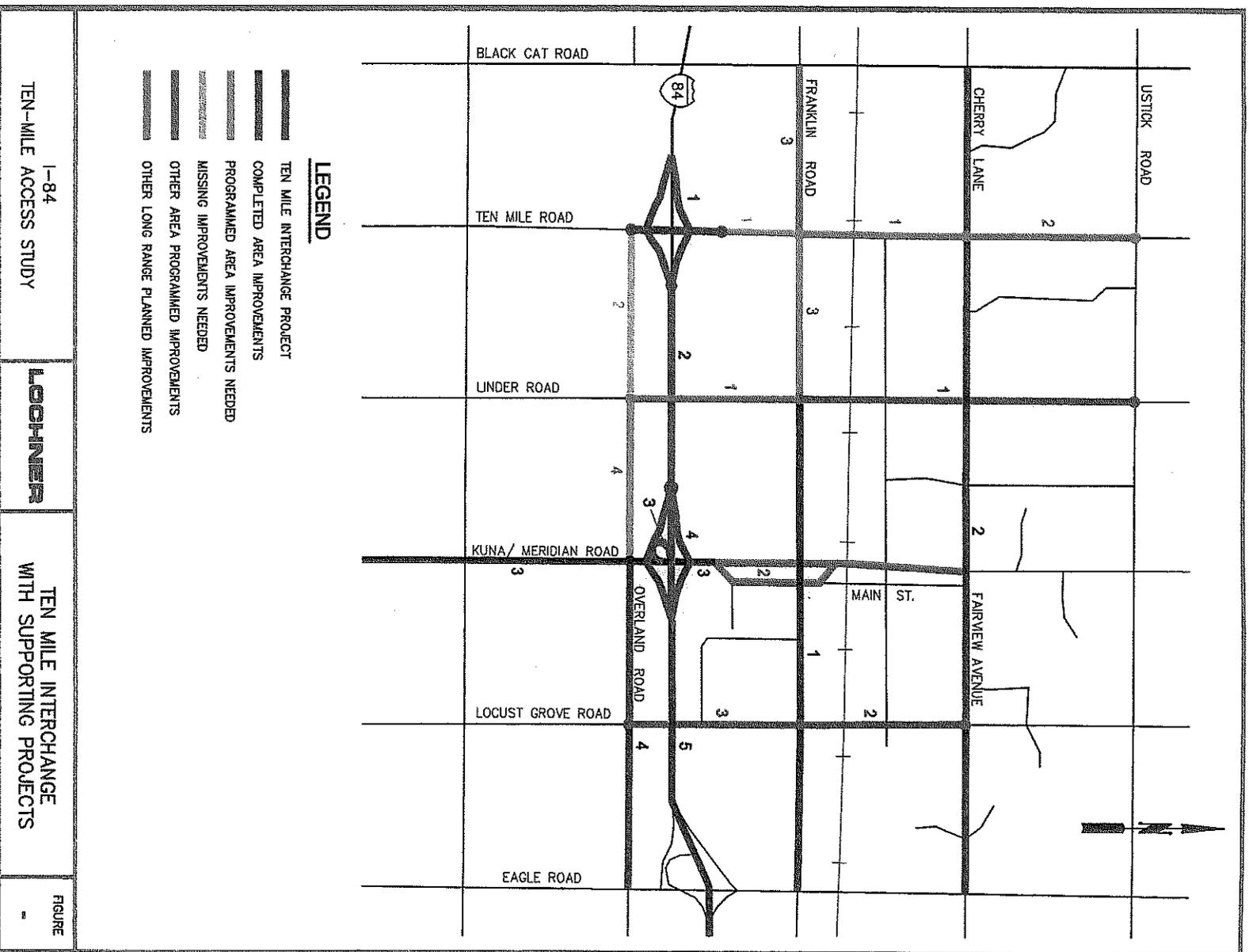
- **Ten Mile Interchange Improvements** – includes constructing the interchange; adding an outside lane in each direction between the new Ten Mile Interchange and the existing Meridian Interchange; and constructing interim improvements to the SE Loop Ramp of the Meridian Interchange. A comparison of cost for the six interchange alternatives under consideration are summarized in Table 1. A breakdown of these costs based on 1<sup>st</sup> quarter 2005 unit prices are contained in Appendices A thru F.

**TABLE 1: TEN MILE ROAD INTERCHANGE – IMPLEMENTATION ELEMENTS  
CONCEPTUAL COST ESTIMATE SUMMARY (millions)**

IMPLEMENTATION ELEMENT	STANDARD DIAMOND	OFFSET DIAMOND	MODIFIED SE-LOOP	MODIFIED SW-LOOP	OFFSET SINGLE POINT	SINGLE POINT (SPU)
Interchange	\$23.7	\$55.4	\$23.4	\$27.2	\$39.2	\$46.4
I-84 New Lanes (3)	\$13.6	\$13.6	\$13.6	\$13.6	\$13.6	\$13.6
Interim EB Loop Meridian Interchange	\$3.5	\$3.5	\$3.5	\$3.5	\$3.5	\$3.5
<b>TOTAL ESTIMATE</b>	<b>\$40.8</b>	<b>\$72.5</b>	<b>\$40.5</b>	<b>\$44.3</b>	<b>\$56.3</b>	<b>\$63.5</b>

- **Needed Area Improvements, already programmed** – includes supporting and needed improvement projects already contained in the ACHD Transportation Improvements Program (TIP). These projects are seen as essential to the success of the Ten Mile Road Interchange as they provide access, egress and circulation for traffic using the new interchange. A summary of the estimated costs based on information from the ACHD's TIP are included in Table 2. These projects include two Ten Mile Road widening projects – Franklin Road to Cherry Road & Cherry Road to Ustick Road; Franklin Road widening - Linder Road to Ten Mile Road; and Overland Road widening - Meridian Road to Linder Road.

FIGURE 2: TEN MILE INTERCHANGE & SUPPORTING PROJECTS



**TABLE 2: TEN MILE ROAD INTERCHANGE – SUPPORTING IMPROVEMENTS  
NEEDED IMPROVEMENTS ALREADY PROGRAMMED  
CONCEPTUAL COST ESTIMATE SUMMARY**

	YEAR PROGRAMMED	YEAR NEEDED	ESTIMATED COST	AGENCY RESPONSIBLE
Ten Mile Widening Franklin-Cherry	2007	2007	\$5,382,000	ACHD
Ten Mile Widening Cherry – Ustick	2008	2008	\$5,062,000	ACHD
Franklin Widening Linder-Ten Mile	2010	2010	\$6,088,000	ACHD
Overland Widening Meridian-Linder	2007	2007	\$4,080,000	ACHD
<b>TOTAL</b>			<b>\$20,612,000</b>	

- **Needed Area Improvements, not currently programmed** – includes two projects that are seen as essential to the success and operating efficiency of the Ten Mile Road Interchange in addition to those already programmed. These projects are: Ten Mile Road widening from I-84 to Franklin Road and Overland Road widening from Linder Road to Ten Mile Road as listed in Table 3. While Ten Mile Road from I-84 to Franklin Road is an ACHD project, funding is anticipated to be part of the GARVEE interchange project.

**TABLE 3: TEN MILE ROAD INTERCHANGE – SUPPORTING IMPROVEMENTS  
NEEDED IMPROVEMENTS NOT CURRENTLY PROGRAMMED  
CONCEPTUAL COST ESTIMATE SUMMARY**

	YEAR PROGRAMMED	YEAR NEEDED	ESTIMATED COST	AGENCY RESPONSIBLE
Ten Mile Widening I-84 to Franklin	Not in 5-Year Program	2010	\$5,500,000	ACHD
Overland Widening Linder-Ten Mile	Not in 5-Year Program	2010	\$4,100,000	ACHD
<b>TOTAL</b>			<b>\$9,600,000</b>	

With the approval of the GARVEE Bill and the measurement of project success for the Ten Mile Road Interchange project being a ribbon cutting ceremony by 2011, coordination, cooperation and integrated project funding for the above referenced projects may become critical for this nearly \$90 - \$100 million state and local improvement program. To meet the proposed schedule, funding for the NEPA EA and Concept Report is needed almost immediately; but funds from the GARVEE bonds will not be available until 2006.

Table 4 summarizes the estimated annual project costs associated with the proposed design and project implementation schedule. For comparison purposes, a Single Point Urban Interchange configuration was assumed. The estimated cost for the six interchange configurations with the widening of I-84 and interim modifications to the Meridian Interchange range from about \$40.5 million to \$72.5 million. It also includes an overall estimate of the sources of revenue. Based on this analysis, there appears to be sufficient revenue for the implementation of the project.

TABLE 4: I-84/TEN MILE INTERCHANGE IMPLEMENTATION PLAN

PROJECTS	2005	2006	2007	2008	2009	2010	TOTAL
<b>I-84, TEN MILE ACCESS PROJECTS (Ten Mile IC &amp; I-84 Widening &amp; Interim Meridian IC) (Tentitive funding source - GARVEE)</b>							<b>\$63,500,000</b>
Concept Report & Environmental Assessment (1,2,3) <sup>1</sup>	\$500,000	\$2,300,000					\$2,800,000
Finalize Access Report		\$25,000	\$25,000				\$50,000
PS&E and R/W (1,2,3) <sup>4</sup>			\$6,900,000	\$7,150,000			\$14,050,000
Utilities (1,2,3) <sup>1</sup>					\$400,000		\$400,000
1. Construct - Ten Mile Interchange <sup>4</sup>						\$32,450,000	\$32,450,000
2. Construct - Widen I-84 to 6 Lanes (outside lanes)					\$10,825,000		\$10,825,000
3. Construct - Interim EB Loop On-Ramp (Meridian)					\$2,925,000		\$2,925,000
<b>NEEDED IMPROVEMENTS ALREADY PROGRAMMED<sup>1</sup> (Tentitive Funding Source - ACHD)</b>							<b>\$20,612,000</b>
Ten Mile Widening, Franklin-Cherry			\$5,382,000				\$5,382,000
Ten Mile Widening, Cherry-Ustick				\$5,062,000			\$5,062,000
Franklin Widening, Linder-Ten Mile						\$6,088,000	\$6,088,000
Overland Widening, Meridian-Linder			\$4,080,000				\$4,080,000
<b>NEEDED IMPROVEMENTS NOT CURRENTLY PROGRAMMED<sup>1</sup> (Tentitive funding source - Ten Mile - GARVEE; Overland - ACHD)</b>							<b>\$9,600,000</b>
Ten Mile Widening, I-84 to Franklin						\$5,500,000	\$5,500,000
Overland Widening, Linder-Ten Mile						\$4,100,000	\$4,100,000
<b>REVENUE SOURCES</b>							<b>\$94,887,000</b>
GARVEE Bond			\$6,925,000	\$7,150,000	\$14,150,000	\$37,950,000	\$66,175,000
Developer Contribution (may be reimbursed)	\$500,000	\$1,000,000					\$1,500,000
ACHD			\$9,462,000	\$5,062,000		\$10,188,000	\$24,712,000
ACHD - Outside Funding							\$0
STP - Meridian <sup>3</sup>		\$500,000					\$500,000
Re-authorization Earmark - Meridian <sup>2</sup>		\$2,000,000					\$2,000,000
<b>TOTAL ESTIMATED COSTS</b>	<b>\$500,000</b>	<b>\$2,325,000</b>	<b>\$16,387,000</b>	<b>\$12,212,000</b>	<b>\$14,150,000</b>	<b>\$48,138,000</b>	<b>\$93,712,000</b>
<b>TOTAL ESTIMATED REVENUES</b>	<b>\$500,000</b>	<b>\$3,500,000</b>	<b>\$16,387,000</b>	<b>\$12,212,000</b>	<b>\$14,150,000</b>	<b>\$48,138,000</b>	<b>\$94,887,000</b>
<b>Notes:</b>							

<sup>1</sup> Design, environmental and R/W assumed to be included in estimated cost.

<sup>2</sup> Based on House Bill HR3 which is in conference.

<sup>3</sup> Base on 2006 Annual Appropriation Bill still in committee.

<sup>4</sup> Assumes SPUI interchange configuration, including interchange, widening to I-84 and Interim Meridian Interchange improvements.

**LIST OF APPENDICES**

- Appendix A: Cost Estimate Summary – Alternative 1: Standard Diamond
- Appendix B: Cost Estimate Summary – Alternative 2: Offset Diamond
- Appendix C: Cost Estimate Summary – Alternative 3: Modified SE-Loop
- Appendix D: Cost Estimate Summary – Alternative 4: Modified SW-Loop
- Appendix E: Cost Estimate Summary – Alternative 5: Offset Single Point
- Appendix F: Cost Estimate Summary – Alternative 6: Single Point Interchange
- Appendix G: Cost Estimate Summary – Ten Mile Road: I-84 to Franklin Road
- Appendix H: Cost Estimate Summary – I-84 Widening: Ten Mile Road to Meridian Road
- Appendix I: Cost Estimate Summary – Interim Improvements to Meridian EB Ramps
- Appendix J: Cost Estimate Summary – Improvements to Meridian Interchange and WB Ramps





REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	Mar, '05	HWL	Alternatives

DESIGNED	Refat Barbour
DESIGN CHECKED	Bob Munchinski
DETAILED	
DRAWING CHECKED	

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME
DRAWING DATE:

**IDAHO  
TRANSPORTATION  
DEPARTMENT**



PROJECT NO.	ST-84-1 (542) 42
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PROJECT PLAN SHEET	I-84 - TEN MILE INTERCHANGE
ALT-4: MODIFIED SW-LOOP	

<b>English</b>
CDUNTY Ada
KEY NUMBER 9349

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PRELIMINARY  
FOR  
CONSTRUCTION**



REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	Mar, '05	HWL	Alternatives

DESIGNED	Refat Barbour	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED	Bob Munchinski	
DETAILED		CADD FILE NAME
DRAWING CHECKED		DRAWING DATE:

**IDAHO  
TRANSPORTATION  
DEPARTMENT**



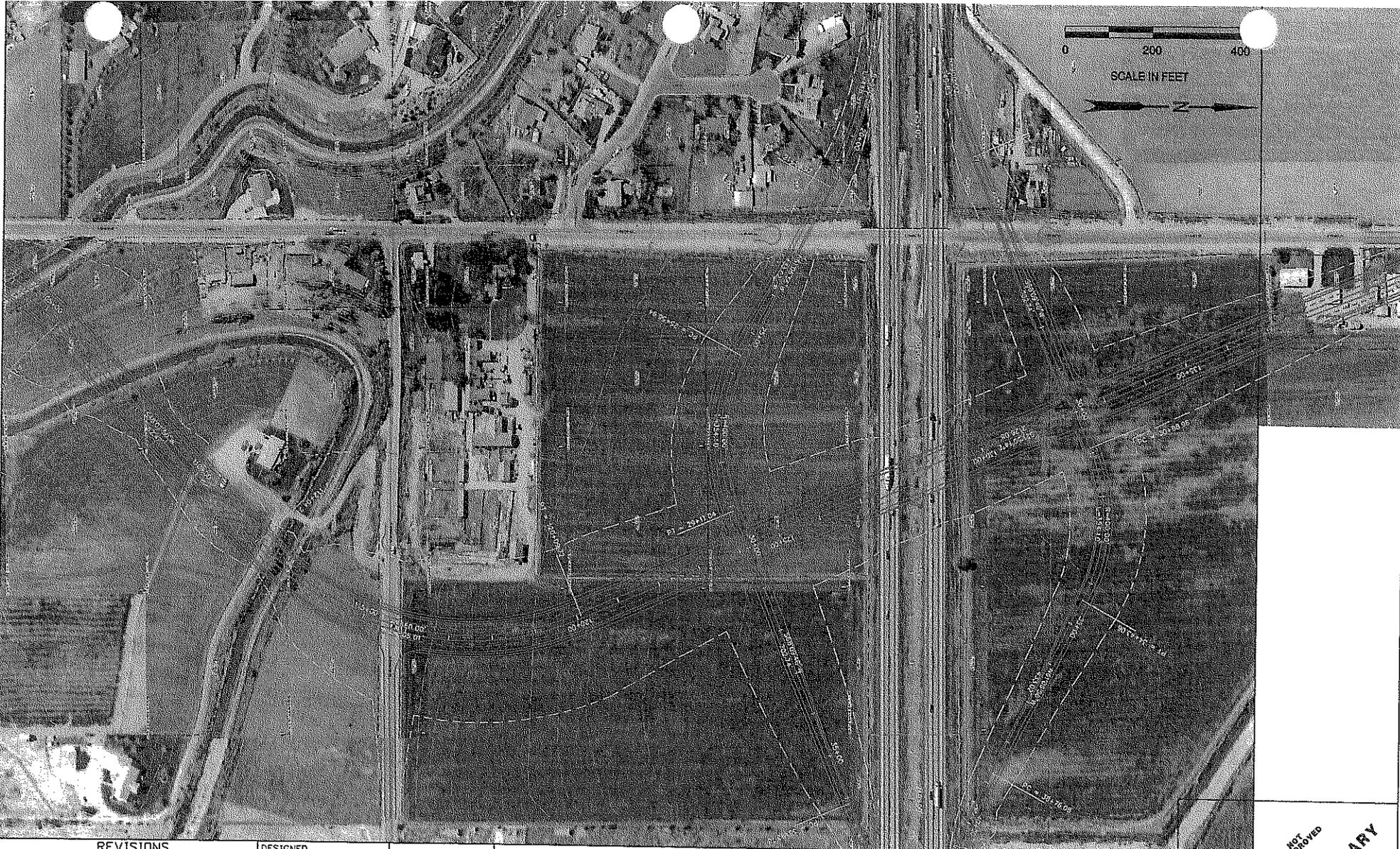
PROJECT NO.	ST-84-1 (542) 42
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PROJECT PLAN SHEET	I-84 - TEN MILE INTERCHANGE
	ALT-3: MODIFIED SE-LOOP

<b>English</b>
COUNTY <i>Ada</i>
KEY NUMBER 9349
SHEET 3 OF 5

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REVISIONS			
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1	Mar. '05	HWL	Alternatives

DESIGNED	
DESIGN CHECKED	Refat Barbour
DETAILED	Bob Munchinski
DRAWING CHECKED	

SCALES SHOWN	
ARE FOR 11" X 17"	
PRINTS ONLY	
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DRAWING DATE:	

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**



PROJECT NO.  
**ST-84-1 (542) 42**

PROJECT PLAN SHEET  
**I-84 - TEN MILE INTERCHANGE**  
**ALT-2: OFFSET DIAMOND**

**English**  
 COUNTY Ada  
 KEY NUMBER 9349  
 SHEET 2 OF 5

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REVISIONS		
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1	Mar, '05	Alternatives

DESIGNED	Refat Barbour
DESIGN CHECKED	Bob Munchinski
DETAILED	
DRAWING CHECKED	

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME
DRAWING DATE:

**IDAHO  
TRANSPORTATION  
DEPARTMENT**



PROJECT NO.	ST-84-1 (542) 42
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PROJECT PLAN SHEET	I-84 - TEN MILE INTERCHANGE
	ALT-1: STANDARD DIAMOND

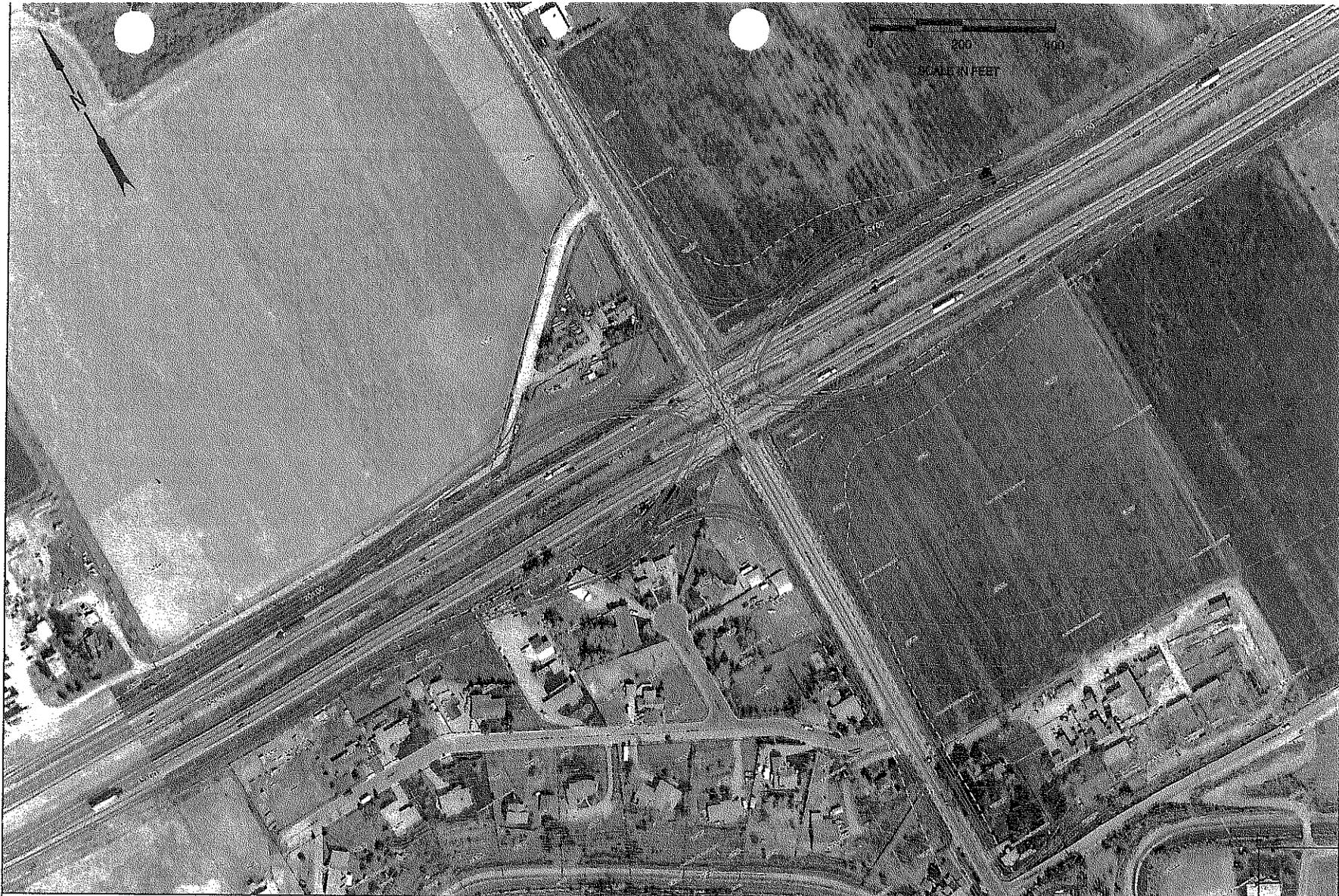
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COUNTY Ada
KEY NUMBER 9349
SHEET 1 OF 5

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APPROVED**

**PRELIMINARY**

FOR  
CONSTRUCTION



REVISIONS		
NO.	DATE	BY
1	May, '05	HWL

DESIGNED	Refol Barbour
DESIGN CHECKED	Bob Munchinski
DETAILED	
DRAWING CHECKED	

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
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DRAWING DATE:

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TRANSPORTATION  
DEPARTMENT**



PROJECT NO.	ST-84-1 (542) 42
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PROJECT PLAN SHEET	I-84 - TEN MILE INTERCHANGE
	ALT-6: SINGLE POINT URBAN

<b>English</b>
COUNTY Ada
KEY NUMBER 9349
SHEET 0 OF 0

**NOT  
Approved**

**PRELIMINARY**

**FOR  
construction**

**APPENDIX A**

**COST ESTIMATE SUMMARY**

**ALTERNATIVE 1: STANDARD DIAMOND**

# TEN-MILE RD INTERCHANGE STUDY ALTERNATIVE-1 : STANDARD DIAMOND COST ESTIMATE SUMMARY

Date: 6/21/2005

	I-84 WIDEN (3-LANE)	MERIDIAN I/C EB LOOP ON-RAMP	NEW MERIDIAN I/C
INTERCHANGE COST_ESTIMATE*	TEN-MILE RD COST_ESTIMATE*	COST_ESTIMATE (add 1'-12-foot lane & 10-ft shoulder)	COST_ESTIMATE

I. RIGHT OF WAY				
Year 2005 Market Value	\$ 8,200,000	\$ 1,200,000	\$ 900,000	\$ -
				\$ 1,600,000

II. CONSTRUCTION				
1. Grading (Earthwork)	\$ 1,713,000	\$ 225,000	\$ 473,000	\$ 176,000
2. Structures	\$ 2,700,000	\$ 288,000	\$ 336,000	\$ 280,000
3. Pavement Surfacing & Base	\$ 1,606,000	\$ 880,000	\$ 2,643,000	\$ 547,000
4. Drainage & Irrigation	\$ 595,000	\$ 362,000	\$ 1,000,000	\$ 255,000
5. Roadside Development	\$ 165,000	\$ 38,000	\$ 240,000	\$ 38,000
6. Traffic Services & Safety	\$ 1,035,000	\$ 321,000	\$ 1,160,000	\$ 217,000
7. Construction Traffic Control	\$ 435,600	\$ 120,800	\$ 800,000	\$ 254,800
8. Utilities	\$ 107,200	\$ 24,200	\$ 160,000	\$ 51,000
9. Mobilization	\$ 836,000	\$ 226,000	\$ 681,000	\$ 182,000
10. Contingencies & Miscellaneous	\$ 2,758,000	\$ 746,000	\$ 2,248,000	\$ 600,000
11. Construction Engineering	\$ 1,434,000	\$ 388,000	\$ 1,169,000	\$ 312,000
			Meridian Staged Construction add 40%	\$ 7,000,000

10. CONSTRUCTION TOTAL :	\$ 13,400,000	\$ 3,700,000	\$ 11,000,000	\$ 3,000,000
III. PRELIMINARY ENGINEER & ENVIRN.	\$ 2,100,000	\$ 600,000	\$ 1,700,000	\$ 500,000
				\$ 2,400,000

IV. SUB-TOTAL ESTIMATED COST Lines I, II and III (2005 Dollars)	\$ 23,700,000	\$ 5,500,000	\$ 13,600,000	\$ 3,500,000
				\$ 26,200,000

V. TOTAL ESTIMATED COST Columns I, II, III and IV (2005 Dollars)	\$			\$ 73,000,000
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\*Ten Mile Rd from south of I-84 to 600' north of I-84 WB Ramp intersection is included with Interchange cost estimate.  
File: TenMile-alt-1r.xls  
Sheet: Alt-1 Cost Estimate Summary

# TEN-MILE ROAD INTERCHANGE STUDY ALTERNATIVE-1 : STANDARD DIAMOND INTERCHANGE COST ESTIMATE

Date: 6/21/2005

**I. RIGHT OF WAY**

1. Year 2005 Assessment	\$ 5,367,800	
2. Relocation and Miscellaneous	\$ 1,399,750	
Year 2005 Market Value	120 % of lines 1+2	
	\$ 8,121,000	<b>Rounded Totals</b>
		<b>\$ 8,200,000</b>

**II. CONSTRUCTION**

1. Grading (Earthwork)		
Clear & Grub, Demolition	\$ 106,400	
Roadway Excavation	\$ 76,700	
Borrow & Compaction	\$ 1,529,600	
		\$ 1,713,000
2. Structures		
Bridges & Box Culverts	\$ 2,700,000	
Retaining Walls	\$ -	
		\$ 2,700,000
3. Pavement Surfacing & Base		
Paving Type: ACP CL.II	\$ 1,043,800	
Base Type: CSBC	\$ 561,800	
		\$ 1,606,000
4. Drainage & Irrigation		
Drainage	\$396,400	
Irrigation	\$198,200	
		\$595,000
5. Roadside Development		
Seeding, Fertilizer, and Mulching	\$ 45,000	
Temp. Water & Pollution Control	\$ 39,100	
Planting	\$ 80,900	
		\$ 165,000
6. Traffic Services & Safety		
Concrete sidewalk	\$ 187,500	
Signals	\$ 400,000	
Illumination	\$ 209,900	
Signaling & Striping	\$ 90,500	
Fencing	\$ 147,400	
		\$ 1,035,000

7. Construction Traffic Control		
		\$ 435,600
8. Utilities		
10% of Lines 1 to 8		\$ 107,200
9. Mobilization		
30% of Lines 1 to 9		\$ 2,758,000
10. Contingencies & Miscellaneous		
12% of Lines 1 to 10		\$ 1,434,000
11. Construction Engineering		
Lines 1 to 11		\$ 13,385,000
12. CONSTRUCTION TOTAL:		\$ 13,400,000

III. PRELIMINARY ENGINEERING & ENVIRONMENTAL		
15% of Line 12		\$ 2,008,000
		\$ 2,100,000

IV. TOTAL ESTIMATED COST - Lines I, II and III (2005 Dollars)		
		\$ 23,510,000
		\$ 23,700,000

Interchange Right of Way

<b>RIGHT OF WAY CALC. (Ada County Assessor Records):</b>																
Parcel No.	Address	Zone Code	State Category_Code	From STA	To STA	Side LT RT	Length (FT)	Width (FT)	Area Take (FT <sup>2</sup> )	Land Assess / (FT <sup>2</sup> )	Land Cost/ (FT <sup>2</sup> )	Structure	Total Assess	Relocation & Miscel.	Comments	
S1222110046	1751 S. Ten Mile Rd, Meridian, ID 83642	R1	120-Residential Tract	110+27	112+45	LT	218	35	7630	\$ 0.90	\$ 5.00		\$ 38,200			
S1223223300	1620 S. Ten Mile Rd, Meridian, ID 83642	RUT	120-Residential Tract	110+27	112+20	RT	193	35	6755	\$ 1.24	\$ 5.00		\$ 33,800			
R1389330090	1581 S. Ten Mile Rd, Meridian, ID 83642	R1	150-Res Sub Lot	112+45	114+98	LT	253	180.44	45651	\$ 1.31	\$ 5.00	\$ 99,800	\$ 328,100	\$ 164,050	Full Take	
S1214336310	1520 S. Ten Mile Rd, Meridian, ID 83642	RUT	120-Residential Tract	112+71	115+12	RT	241	361.49	87119	\$ 1.09	\$ 5.00	\$ 94,500	\$ 530,100	\$ 265,050	Full Take	
R1389330100	1505 S. Ten Mile Rd, Meridian, ID 83642	R1	150-Res Sub Lot	114+98	116+40	LT	142	50	7100	\$ 1.17	\$ 5.00		\$ 35,500			
S1214336305	S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	115+12	119+83	RT	471	40	18840	\$ 0.23	\$ 5.00		\$ 94,200			
S1214336305	S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	119+83	123+35	RT	352	450	158400	\$ 0.23	\$ 5.00		\$ 792,000			
S1216449600	1485 S. Ten Mile Rd, Meridian, ID 83642	R1	120-Residential Tract	116+93	119+24	LT	231	188.57	43560	\$ 1.15	\$ 5.00	\$ 107,500	\$ 325,300	\$ 162,650	Full Take	
R1389330005	1382 N. Tasa PL, Meridian, ID 83642	R1	150-Res Sub Lot	119+24	120+67	LT	143	236.38	33802	\$ 1.33	\$ 5.00	\$ 91,900	\$ 260,900	\$ 130,450	Full Take	
R1389330010	1356 N. Tasa PL, Meridian, ID 83642	R1	150-Res Sub Lot	120+67	121+29	LT	62	604.22	37462	\$ 1.33	\$ 5.00	\$ 76,600	\$ 263,900	\$ 131,950	Full Take	
R1389330020	1320 N. Tasa PL, Meridian, ID 83642	R1	150-Res Sub Lot	121+29	123+32	LT	203	214.8	43604	\$ 1.15	\$ 5.00	\$ 79,400	\$ 297,400	\$ 148,700	Full Take	
R1389330030	1357 N. Tasa PL, Meridian, ID 83642	R1	150-Res Sub Lot	121+30	123+32	LT	202	203.78	41164	\$ 1.21	\$ 5.00	\$ 105,200	\$ 311,000	\$ 155,500	Full Take	
R1389330050	3380 W. Tasa DR, Meridian, ID 83642	R1	150-Res Sub Lot	122+11	123+32	LT	121	124	15004	\$ 1.25	\$ 5.00		\$ 75,000			
R1389330060	3428 W. Tasa DR, Meridian, ID 83642	R1	150-Res Sub Lot	122+74	123+32	LT	58	172	9976	\$ 1.20	\$ 5.00		\$ 49,900			
R1389330070	3450 W. Tasa DR, Meridian, ID 83642	R1	150-Res Sub Lot	123+12	123+32	LT	20	163	3260	\$ 1.42	\$ 5.00		\$ 16,300			
S1215417500	1155 S. Ten Mile Rd, Meridian, ID 83642	RUT	120-Residential Tract	125+32	129+07	LT	375	232.32	87120	\$ 0.80	\$ 5.00	\$ 47,200	\$ 482,800	\$ 241,400	Full Take	
S1215417262	S. Ten Mile Rd, Meridian, ID 83642	RUT	10-Irrigated Ag	125+32	129+07	LT	375	150	56250	\$ 0.03	\$ 5.00		\$ 281,300			
S1214325410	980 S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	125+33	128+83	RT	350	200	70000	\$ 1.09	\$ 5.00		\$ 350,000			
S1214325410	980 S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	128+83	137+38	RT	855	30	25650	\$ 1.09	\$ 5.00		\$ 128,300			
S1215417262	S. Ten Mile Rd, Meridian, ID 83642	RUT	10-Irrigated Ag	129+07	136+27	LT	720	35	25200	\$ 0.03	\$ 5.00		\$ 126,000			
S1214325500	S. Ten Mile Rd, Meridian, ID 83642	RUT	10-Irrigated Ag	125+33	128+83	RT	350	313	109550	\$ 0.02	\$ 5.00		\$ 547,800			
<b>Total (21)</b>									<b>933097</b>	<b>\$ 5.00</b>		<b>\$ 702,100</b>	<b>\$ 5,367,800</b>	<b>\$ 1,399,750</b>	<b>(8) Full Take</b>	

Interchange Quantities

QUANTITY CALC.											
Item No.	From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments	
<b>1. Grading (Earthwork)</b>											
Clear & Grub, Demolition:											
EB (Off+On) Ramps (A-B & B-C)	16+57	46+03	2946	80		ACRE	5.42	\$ 5,000.00	\$ 27,100		
WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946	77		ACRE	5.20	\$ 5,000.00	\$ 26,000		
Driveway Relocation	0+00	15+00	1500	50		ACRE	1.72	\$ 5,000.00	\$ 8,600		
TenMile Rd	110+50	135+50	2500	156		ACRE	8.95	\$ 5,000.00	\$ 44,700		
Sub Total							21.29		\$ 106,400		
Roadway Excavation incl. Haul:											
EB (Off+On) Ramps (A-B & B-C)	16+57	46+03	2946			YD <sup>3</sup>	3360	\$ 5.00	\$ 16,800		
WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946			YD <sup>3</sup>	2687	\$ 5.00	\$ 13,400		
TenMile Rd	110+50	135+50	2500			YD <sup>3</sup>	9307	\$ 5.00	\$ 46,500		
Sub Total							15354		\$ 76,700		
Borrow:											
EB (Off+On) Ramps (A-B & B-C)	16+57	46+03	2946			YD <sup>3</sup>	34376	\$ 10.00	\$ 343,800		
WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946			YD <sup>3</sup>	30857	\$ 10.00	\$ 308,600		
Driveway Relocation	0+00	15+00	1500			YD <sup>3</sup>	8000	\$ 10.00	\$ 80,000		
TenMile Rd	110+50	135+50	2500			YD <sup>3</sup>	44419	\$ 10.00	\$ 444,200		
Sub Total			9892				117652		\$ 1,176,600		
Embankment Compaction:											
Sub Total	00+00	00+00	9892			YD <sup>3</sup>	117652	\$ 3.00	\$ 353,000		
Borrow & Compaction Total:									\$ 1,529,600		
<b>2. Structures</b>											
Retaining Walls:											
Sub Total	-	-	0		0	FT <sup>2</sup>	0	\$ 50.00	\$ -		
Bridges & Box Culverts:									\$ -		
TenMile Rd Bridge overpass I-84	123+07	125+57	250	90		FT <sup>2</sup>	22500	\$ 120.00	\$ 2,700,000		

<b>QUANTITY CALC.</b>											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
	Sub Total									\$ 2,700,000	
	<b>3. Pavement Surfacing &amp; Base</b>										
	EB (Off+On) Ramps (A-B & B-C) ACP CL.II	16+57	46+03	2946	30	0.5	T	3355	\$ 70.00	\$ 234,900	
	WB (On+Off) Ramps (D-A & C-D) ACP CL II	13+97	43+43	2946	30	0.5	T	3355	\$ 70.00	\$ 234,900	
	Driveway Relocation (ACP) Class II	0+00	15+00	1500	24	0.5	T	1367	\$ 70.00	\$ 95,700	
	TenMile Rd Asphalt Concrete Pavement (ACP) Class II	110+50	135+50	2500	72	0.5	T	6833	\$ 70.00	\$ 478,300	
	Sub Total									\$ 1,043,800	
	EB (Off+On) Ramps (A-B & B-C) CSBC	16+57	46+03	2946	40	0.75	YD <sup>3</sup>	3273	\$ 40.00	\$ 130,900	
	WB (On+Off) Ramps (D-A & C-D) CSBC	13+97	43+43	2946	40	0.75	YD <sup>3</sup>	3273	\$ 40.00	\$ 130,900	
	Driveway Relocation (CSBC)	0+00	15+00	1500	30	0.75	YD <sup>3</sup>	1250	\$ 40.00	\$ 50,000	
	TenMile Rd Crushed Surface Base Course (CSBC)	110+50	135+50	2500	90	0.75	YD <sup>3</sup>	6250	\$ 40.00	\$ 250,000	
	Sub Total									\$ 561,800	
	<b>4. Drainage &amp; Irrigation</b>										
	Drainage:										
	EB (Off+On) Ramps	16+57	46+03	2946	30		YD <sup>2</sup>	9820	\$ 10.00	\$ 98,200	
	WB (On+Off) Ramps	13+97	43+43	2946	30		YD <sup>2</sup>	9820	\$ 10.00	\$ 98,200	
	TenMile Rd	110+50	135+50	2500	72		YD <sup>2</sup>	20000	\$ 10.00	\$ 200,000	
	Sub Total									\$ 396,400	
	Irrigation:										
	EB (Off+On) Ramps	16+57	46+03	2946	30		YD <sup>2</sup>	9820	\$ 5.00	\$ 49,100	
	WB (On+Off) Ramps	13+97	43+43	2946	30		YD <sup>2</sup>	9820	\$ 5.00	\$ 49,100	
	TenMile Rd	110+50	135+50	2500	72		YD <sup>2</sup>	20000	\$ 5.00	\$ 100,000	
	Sub Total									\$ 198,200	
	<b>5. Roadside Development</b>										

Interchange Quantities

QUANTITY CALC.											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
	Seeding, Fertilizer, and Mulching EB (Off+On) Ramps	16+57	46+03	2946	40		ACRE	2.71	\$ 5,000.00	\$ 13,600	
	Seeding, Fertilizer, and Mulching WB (On+Off) Ramps	13+97	43+43	2946	37		ACRE	2.50	\$ 5,000.00	\$ 12,500	
	Seeding, Fertilizer, and Mulching TenMile Rd	110+50	135+50	2500	66		ACRE	3.78	\$ 5,000.00	\$ 18,900	
	Sub Total									\$ 45,000	
	Temporary Water and Pollution Control EB (Off+On) Rm	16+57	46+03	2946	80		ACRE	5.42	\$ 2,000.00	\$ 10,800	
	Temporary Water and Pollution Control WB (Off+On) Rm	13+97	43+43	2946	77		ACRE	5.20	\$ 2,000.00	\$ 10,400	
	Temporary Water and Pollution Control TenMile Rd	110+50	135+50	2500	156		ACRE	8.95	\$ 2,000.00	\$ 17,900	
	Sub Total									\$ 39,100	
	Planting EB (Off+On) Ramps (A-B & B-C)	16+57	46+03	2946			ACRE	2.71	\$ 9,000.00	\$ 24,400	
	Planting WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946			ACRE	2.50	\$ 9,000.00	\$ 22,500	
	Planting TenMile Rd	110+50	135+50	2500			ACRE	3.78	\$ 9,000.00	\$ 34,000	
	Sub Total									\$ 80,900	
	<b>6. Traffic Services &amp; Safety</b>										
	Concrete Barrier	-	-	0			FT	0	\$ 40.00	\$ -	
	Sub Total									\$ -	
	TenMile Rd Cement Concrete Sidewalk	110+50	135+50	2500	15		YD <sup>2</sup>	4167	\$ 45.00	\$ 187,500	
	Sub Total									\$ 187,500	
	Signal TenMile Rd @ EB (Off+On) Ramps (A-B & B-C)	120+78	120+78				EACH		\$ 200,000.00	\$ 200,000	
	Signal TenMile Rd @ WB (On+Off) Ramps (D-A & C-D)	127+87	127+87				EACH		\$ 200,000.00	\$ 200,000	
	Sub Total									\$ 400,000	
	Illumination EB (Off+On) Ramps (A-B & B-C)	16+57	46+03	2946			EACH	15	\$ 5,000.00	\$ 73,700	
	Illumination WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946			EACH	15	\$ 5,000.00	\$ 73,700	
	Illumination TenMile Rd	110+50	135+50	2500			EACH	13	\$ 5,000.00	\$ 62,500	
	Sub Total									\$ 209,900	
	Signing EB (Off+On) Ramps (A-B & B-C)	16+57	46+03	2946			EACH	295	\$ 70.00	\$ 20,600	
	Signing WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946			EACH	295	\$ 70.00	\$ 20,600	

Interchange Quantities

<b>QUANTITY CALC.</b>											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
	Signing TenMile Rd	110+50	135+50	2500			EACH	250	\$ 70.00	\$ 17,500	
	Sub Total									\$ 58,700	
	Pavement Marking EB (Off+On) Ramps (A-B & B-C)	16+57	46+03	2946			FT	5892	\$ 1.00	\$ 5,900	
	Pavement Marking WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946			FT	5892	\$ 1.00	\$ 5,900	
	Pavement Marking TenMile Rd	110+50	135+50	2500			FT	20000	\$ 1.00	\$ 20,000	
	Sub Total									\$ 31,800	
	Signing & Striping Total									\$ 90,500	
	Fencing EB (Off+On) Ramps (A-B & B-C)	16+57	46+03	2946			FT	2946	\$ 25.00	\$ 73,700	
	Fencing WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946			FT	2946	\$ 25.00	\$ 73,700	
	Fencing TenMile Rd	110+50	135+50	2500			FT	0	\$ 25.00	\$ -	
	Sub Total									\$ 147,400	
	<b>7. Construction Traffic Control</b>										
	Temporary Traffic Control EB (Off+On) Ramps	16+57	46+03	2946			FT	2946	\$ 40.00	\$ 117,800	
	Temporary Traffic Control WB (On+Off) Ramps	13+97	43+43	2946			FT	2946	\$ 40.00	\$ 117,800	
	Temporary Traffic Control TenMile Rd	110+50	135+50	2500			FT	2500	\$ 80.00	\$ 200,000	
	Sub Total									\$ 435,600	
	<b>8. Utilities</b>										
	Utilities EB (Off+On) Ramps	16+57	46+03	2946			FT	2946	\$ 8.00	\$ 23,600	
	Utilities WB (On+Off) Ramps	13+97	43+43	2946			FT	2946	\$ 8.00	\$ 23,600	
	Utilities TenMile Rd	110+50	135+50	2500			FT	2500	\$ 24.00	\$ 60,000	
	Sub Total									\$ 107,200	

APPENDIX B

COST ESTIMATE SUMMARY

ALTERNATIVE 2: OFFSET DIAMOND

**TEN-MILE RD INTERCHANGE STUDY  
ALTERNATIVE-2 : OFFSET DIAMOND  
COST ESTIMATE SUMMARY**

Date: 6/23/2005

INTERCHANGE COST_ESTIMATE*	TEN-MILE RD COST_ESTIMATE*	1-84 WIDEN (3-LANE) COST_ESTIMATE (add 1-12-foot lane & 10-ft shoulder)	MERIDIAN I/C EB LOOP ON-RAMP COST_ESTIMATE	NEW MERIDIAN I/C COST_ESTIMATE
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<b>I. RIGHT OF WAY</b>				
Year 2005 Market Value	\$ 15,200,000	\$ 1,200,000	\$ 900,000	\$ -
				\$ 1,600,000

<b>II. CONSTRUCTION</b>				
1. Grading (Earthwork)	\$ 12,601,000	\$ 216,000	\$ 473,000	\$ 176,000
2. Structures	\$ 3,737,000	\$ 115,000	\$ 336,000	\$ 200,000
3. Pavement Surfacing & Base	\$ 2,078,000	\$ 778,000	\$ 2,643,000	\$ 547,000
4. Drainage & Irrigation	\$ 849,000	\$ 320,000	\$ 1,000,000	\$ 255,000
5. Roadside Development	\$ 449,000	\$ 34,000	\$ 240,000	\$ 38,000
6. Traffic Services & Safety	\$ 1,284,000	\$ 307,000	\$ 1,160,000	\$ 217,000
7. Construction Traffic Control	\$ 608,400	\$ 106,800	\$ 800,000	\$ 254,800
8. Utilities	\$ 156,800	\$ 21,400	\$ 160,000	\$ 51,000
9. Mobilization	\$ 2,176,000	\$ 190,000	\$ 681,000	\$ 174,000
10. Contingencies & Miscellaneous	\$ 7,182,000	\$ 626,000	\$ 2,248,000	\$ 574,000
11. Construction Engineering	\$ 3,735,000	\$ 326,000	\$ 1,169,000	\$ 298,000
			Meridian Staged Construction add 40%	\$ 6,888,000
<b>10. CONSTRUCTION TOTAL :</b>	\$ 34,900,000	\$ 3,100,000	\$ 11,000,000	\$ 3,000,000
				\$ 22,200,000

<b>III. PRELIMINARY ENGINEER &amp; ENVIRM.</b>	\$ 5,300,000	\$ 500,000	\$ 1,700,000	\$ 500,000
				\$ 2,400,000
<b>IV. SUB-TOTAL ESTIMATED COST</b>	\$ 55,400,000	\$ 4,800,000	\$ 13,600,000	\$ 3,500,000
Lines I, II and III (2005 Dollars)				\$ 26,200,000

<b>V. TOTAL ESTIMATED COST</b> Columns I, II, III and IV (2005 Dollars)	\$ 104,000,000
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\* Ten Mile Rd from south of 1-84 to 600' north of 1-84 WB Ramp Intersection is included with Interchange cost estimate.  
File: TenMile-alt-2.rxs  
Sheet: Alt-2 Cost Estimate Summary

**TEN-MILE ROAD INTERCHANGE STUDY  
ALTERNATIVE-2 : OFFSET DIAMOND  
INTERCHANGE COST ESTIMATE**

Date: 6/21/2005

**I. RIGHT OF WAY**

1. Year 2005 Assessment	\$ 12,076,100	<b>Rounded</b>
2. Relocation and Miscellaneous	\$ 533,300	<b>Totals</b>
Year 2005 Market Value	120 % of lines 1+2	\$ 15,131,000 \$ 15,200,000

**II. CONSTRUCTION**

1. Grading (Earthwork)		
Clear & Grub, Demolition	\$ 205,800	
Roadway Excavation	\$ 51,100	
Embankment Compaction	\$ 12,343,800	
		\$ 12,601,000
2. Structures		
Bridges & Box Culverts	\$ 3,736,800	
Retaining Walls	\$ -	
		\$ 3,737,000
3. Pavement Surfacing & Base		
Paving Type: ACP CL.B	\$ 1,353,100	
Base Type: CSBC	\$ 725,000	
		\$ 2,078,000
4. Drainage & Irrigation		
Drainage	\$565,800	
Irrigation	\$282,800	
		\$849,000
5. Roadside Development		
Seeding, Fertilizer, and Mulching	\$ 130,900	
Temp. Water & Pollution Control	\$ 82,200	
Planting	\$ 235,400	
		\$ 449,000
6. Traffic Services & Safety		
Concrete sidewalk	\$ 330,000	
Signals	\$ 400,000	
Illumination	\$ 270,400	
Signing & Striping	\$ 123,600	
Fencing	\$ 160,400	
		\$ 1,284,000
7. Construction Traffic Control		
		\$ 608,400
8. Utilities		
		\$ 156,800
9. Mobilization		
10% of Lines 1 to 8		\$ 2,176,000
10. Contingencies & Miscellaneous		
30% of Lines 1 to 9		\$ 7,182,000
11. Construction Engineering		
12% of Lines 1 to 10		\$ 3,735,000
12. CONSTRUCTION TOTAL :	Lines 1 to 11	\$ 34,856,000 \$ 34,900,000

**III. PRELIMINARY ENGINEERING & ENVIRONMENTAL**

	15% of Line 12	
		\$ 5,228,000 \$ 5,300,000

**IV. TOTAL ESTIMATED COST Lines I, II and III (2005 Dollars) \$ 55,220,000 \$ 55,400,000**

Interchange Right of Way

**RIGHT OF WAY CALC. (Ada County Assessor Records):**

Parcel No.	Address	Zone Code	State Category_Code	From STA	To STA	Side LT RT	Length (FT)	Width (FT)	Area Take (FT <sup>2</sup> )	Land Assess / (FT <sup>2</sup> )	Land Cost / (FT <sup>2</sup> )	Structure	Total Assess	Relocation & Miscel.	Comments
S1223223500	2010 S. Ten Mile Rd, Meridian, ID 83642	RUT	120-Residential Tract	098+00	103+38	T&R	538	250	134500	\$ 0.75	\$ 5.00		\$ 672,500		
S1223223120	3045 W. Overland Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	103+38	103+62	T&R	24	310	7440	\$ 0.13	\$ 5.00		\$ 37,200		
S1223223382	1620 S. Ten Mile Rd, Meridian, ID 83642	RUT	120-Residential Tract	103+62	106+40	T&R	278	330	91740	\$ 0.13	\$ 5.00		\$ 458,700		
S1223223120	3045 W. Overland Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	106+40	116+10	T&R	970	200	194000	\$ 0.13	\$ 5.00		\$ 970,000		
S1214336305	S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	116+10	122+00	T&R	590	300	177000	\$ 0.23	\$ 5.00		\$ 885,000		
S1214336305	S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	122+00	127+20	T&R	520	1300	676000	\$ 0.23	\$ 5.00		\$ 3,380,000		
S1214346700	W. Overland Rd, Meridian, ID 83642	RUT	180-Other Rural Land	127+20	127+50	RT	30	300	9000	\$ 0.69	\$ 5.00		\$ 45,000		
R1389330010	1356 N. Tasa PL, Meridian, ID 83642	R1	150-Res Sub Lot	127+87	129+63	LT	176	85	14960	\$ 1.33	\$ 5.00		\$ 74,800		
R1389330020	1320 N. Tasa PL, Meridian, ID 83642	R1	150-Res Sub Lot	129+08	129+63	LT	55	200	11000	\$ 1.15	\$ 5.00		\$ 55,000		
R1389330030	1357 N. Tasa PL, Meridian, ID 83642	R1	150-Res Sub Lot	129+63	129+90	LT	27	125	3375	\$ 1.21	\$ 5.00		\$ 16,900		
R1389330050	3380 W. Tasa DR, Meridian, ID 83642	R1	150-Res Sub Lot	129+90	130+00	LT	10	140	1400	\$ 1.25	\$ 5.00		\$ 7,000		
R1389330060	3428 W. Tasa DR, Meridian, ID 83642	R1	150-Res Sub Lot	130+00	130+10	LT	10	190	1900	\$ 1.20	\$ 5.00		\$ 9,500		
S1215417500	1155 S. Ten Mile Rd, Meridian, ID 83642	RUT	120-Residential Tract	131+17	134+92	LT	375	232.32	87120	\$ 0.80	\$ 5.00	\$ 47,200	\$ 482,800	\$ 241,400	Full Take
S1215417262	S. Ten Mile Rd, Meridian, ID 83642	RUT	10-Irrigated Ag	125+32	129+07	LT	375	165	61875	\$ 0.03	\$ 5.00		\$ 309,400		
S1214325410	980 S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	129+55	142+11	T&R	1256	69.39	87154	\$ 1.09	\$ 5.00	\$ 148,000	\$ 583,800	\$ 291,900	Full Take
S1214325500	S. Ten Mile Rd, Meridian, ID 83642	RUT	10-Irrigated Ag	129+55	138+25	LT	870	800	696000	\$ 0.02	\$ 5.00		\$ 3,480,000		
S1215417210	785 S. Ten Mile Rd, Meridian, ID 83642	RUT	120-Residential Tract	141+64	144+01	LT	237	35	8295	\$ 0.46	\$ 5.00		\$ 41,500		
S1214325500	S. Ten Mile Rd, Meridian, ID 83642	RUT	10-Irrigated Ag	138+25	143+92	T&R	567	200	113400	\$ 0.02	\$ 5.00		\$ 567,000		
Total (18)									2376159	\$ 5.00		\$ 195,200	#####	\$ 533,300	(2) Full Take

Interchange Quantities

QUANTITY CALC.											
Item No.	From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments	
<b>1. Grading (Earthwork)</b>											
Clear & Grub, Demolition:											
EB (Off+On) Ramps (A-B & B-C)	13+37	45+43	3206	127		ACRE	9.36	\$ 5,000.00	\$ 46,800		
WB (On+Off) Ramps (D-A & C-D)	14+56	46+62	3206	109		ACRE	8.01	\$ 5,000.00	\$ 40,100		
TenMile Rd	100+00	144+00	4400	235		ACRE	23.77	\$ 5,000.00	\$ 118,900		
Sub Total							41.14		\$ 205,800		
Roadway Excavation incl. Haul:											
EB (Off+On) Ramps (A-B & B-C)	13+37	45+43	3206			YD <sup>3</sup>	2355	\$ 5.00	\$ 11,800		
WB (On+Off) Ramps (D-A & C-D)	14+56	46+62	3206			YD <sup>3</sup>	915	\$ 5.00	\$ 4,600		
TenMile Rd	100+00	144+00	4400			YD <sup>3</sup>	6949	\$ 5.00	\$ 34,700		
Sub Total							10219		\$ 51,100		
Borrow:											
EB (Off+On) Ramps (A-B & B-C)	13+37	45+43	3206			YD <sup>3</sup>	181772	\$ 10.00	\$ 1,817,700		
WB (On+Off) Ramps (D-A & C-D)	14+56	46+62	3206			YD <sup>3</sup>	111765	\$ 10.00	\$ 1,117,700		
TenMile Rd	100+00	144+00	4400			YD <sup>3</sup>	655984	\$ 10.00	\$ 6,559,800		
Sub Total			10812				949521		\$ 9,495,200		
Embankment Compaction:											
Sub Total	00+00	00+00	10812			YD <sup>3</sup>	949521	\$ 3.00	\$ 2,848,600		
Borrow & Compaction Total:									\$ 12,343,800		
<b>2. Structures</b>											
Retaining Walls:											
-----	-	-	0		0	FT <sup>2</sup>	0	\$ 50.00	\$ -		
Sub Total									\$ -		
Bridges & Box Culverts:											
TenMile Rd Box Culvert	103+91	104+21	30	90		FT <sup>2</sup>	2700	\$ 80.00	\$ 216,000		
TenMile Rd Box Culvert	107+12	107+42	30	90		FT <sup>2</sup>	2700	\$ 80.00	\$ 216,000		
TenMile Rd Box Culvert	112+55	112+85	30	90		FT <sup>2</sup>	2700	\$ 80.00	\$ 216,000		

<b>QUANTITY CALC.</b>											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
	TenMile Rd Box Culvert	143+78	143+92	24	90		FT <sup>2</sup>	2160	\$ 80.00	\$ 172,800	
	TenMile Rd Bridge overpass I-84	126+90	129+60	270	90		FT <sup>2</sup>	24300	\$ 120.00	\$ 2,916,000	
	Sub Total									\$ 3,736,800	
	<b>3. Pavement Surfacing &amp; Base</b>										
	EB (Off+On) Ramps (A-B & B-C) ACP CL.B	13+37	45+43	3206	30	0.5	T	3651	\$ 70.00	\$ 255,600	
	WB (On+Off) Ramps (D-A & C-D) ACP CL B	14+56	46+62	3206	30	0.5	T	3651	\$ 70.00	\$ 255,600	
	TenMile Rd Asphalt Concrete Pavement (ACP) Class B	100+00	144+00	4400	72	0.5	T	12027	\$ 70.00	\$ 841,900	
	Sub Total									\$ 1,353,100	
	EB (Off+On) Ramps (A-B & B-C) CSBC	13+37	45+43	3206	40	0.75	YD <sup>3</sup>	3562	\$ 40.00	\$ 142,500	
	WB (On+Off) Ramps (D-A & C-D) CSBC	14+56	46+62	3206	40	0.75	YD <sup>3</sup>	3562	\$ 40.00	\$ 142,500	
	TenMile Rd Crushed Surface Base Course (CSBC)	100+00	144+00	4400	90	0.75	YD <sup>3</sup>	11000	\$ 40.00	\$ 440,000	
	Sub Total									\$ 725,000	
	<b>4. Drainage &amp; Irrigation</b>										
	Drainage:										
	EB (Off+On) Ramps	13+37	45+43	3206	30		YD <sup>2</sup>	10687	\$ 10.00	\$ 106,900	
	WB (On+Off) Ramps	14+56	46+62	3206	30		YD <sup>2</sup>	10687	\$ 10.00	\$ 106,900	
	TenMile Rd	100+00	144+00	4400	72		YD <sup>2</sup>	35200	\$ 10.00	\$ 352,000	
	Sub Total									\$ 565,800	
	Irrigation:										
	EB (Off+On) Ramps	13+37	45+43	3206	30		YD <sup>2</sup>	10687	\$ 5.00	\$ 53,400	
	WB (On+Off) Ramps	14+56	46+62	3206	30		YD <sup>2</sup>	10687	\$ 5.00	\$ 53,400	
	TenMile Rd	100+00	144+00	4400	72		YD <sup>2</sup>	35200	\$ 5.00	\$ 176,000	
	Sub Total									\$ 282,800	
	<b>5. Roadside Development</b>										

Interchange Quantities

<b>QUANTITY CALC.</b>											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
	Seeding, Fertilizer, and Mulching EB (Off+On) Ramps	13+37	45+43	3206	87		ACRE	6.41	\$ 5,000.00	\$ 32,100	
	Seeding, Fertilizer, and Mulching WB (On+Off) Ramps	14+56	46+62	3206	69		ACRE	5.07	\$ 5,000.00	\$ 25,400	
	Seeding, Fertilizer, and Mulching TenMile Rd	100+00	144+00	4400	145		ACRE	14.68	\$ 5,000.00	\$ 73,400	
	Sub Total									\$ 130,900	
	Temporary Water and Pollution Control EB (Off+On) Rm	13+37	45+43	3206	127		ACRE	9.36	\$ 2,000.00	\$ 18,700	
	Temporary Water and Pollution Control WB (Off+On) Rm	14+56	46+62	3206	109		ACRE	8.01	\$ 2,000.00	\$ 16,000	
	Temporary Water and Pollution Control TenMile Rd	100+00	144+00	4400	235		ACRE	23.77	\$ 2,000.00	\$ 47,500	
	Sub Total									\$ 82,200	
	Planting EB (Off+On) Ramps (A-B & B-C)	13+37	45+43	3206			ACRE	6.41	\$ 9,000.00	\$ 57,700	
	Planting WB (On+Off) Ramps (D-A & C-D)	14+56	46+62	3206			ACRE	5.07	\$ 9,000.00	\$ 45,600	
	Planting TenMile Rd	100+00	144+00	4400			ACRE	14.68	\$ 9,000.00	\$ 132,100	
	Sub Total									\$ 235,400	
	<b>6. Traffic Services &amp; Safety</b>										
	Concrete Barrier	-	-	0			FT	0	\$ 40.00	\$ -	
	Sub Total									\$ -	
	TenMile Rd Cement Concrete Sidewalk	100+00	144+00	4400	15		YD <sup>2</sup>	7333	\$ 45.00	\$ 330,000	
	Sub Total									\$ 330,000	
	Signal TenMile Rd @ EB (Off+On) Ramps (A-B & B-C)	124+20	124+20				EACH		\$ 200,000.00	\$ 200,000	
	Signal TenMile Rd @ WB (On+Off) Ramps (D-A & C-D)	132+30	132+30				EACH		\$ 200,000.00	\$ 200,000	
	Sub Total									\$ 400,000	
	Illumination EB (Off+On) Ramps (A-B & B-C)	13+37	45+43	3206			EACH	16	\$ 5,000.00	\$ 80,200	
	Illumination WB (On+Off) Ramps (D-A & C-D)	14+56	46+62	3206			EACH	16	\$ 5,000.00	\$ 80,200	
	Illumination TenMile Rd	100+00	144+00	4400			EACH	22	\$ 5,000.00	\$ 110,000	
	Sub Total									\$ 270,400	
	Signing EB (Off+On) Ramps (A-B & B-C)	13+37	45+43	3206			EACH	321	\$ 70.00	\$ 22,400	
	Signing WB (On+Off) Ramps (D-A & C-D)	14+56	46+62	3206			EACH	321	\$ 70.00	\$ 22,400	

Interchange Quantities

<b>QUANTITY CALC.</b>											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
	Signing TenMile Rd	100+00	144+00	4400			EACH	440	\$ 70.00	\$ 30,800	
	Sub Total									\$ 75,600	
	Pavement Marking EB (Off+On) Ramps (A-B & B-C)	13+37	45+43	3206			FT	6412	\$ 1.00	\$ 6,400	
	Pavement Marking WB (On+Off) Ramps (D-A & C-D)	14+56	46+62	3206			FT	6412	\$ 1.00	\$ 6,400	
	Pavement Marking TenMile Rd	100+00	144+00	4400			FT	35200	\$ 1.00	\$ 35,200	
	Sub Total									\$ 48,000	
	Signing & Striping Total									\$ 123,600	
	Fencing EB (Off+On) Ramps (A-B & B-C)	13+37	45+43	3206			FT	3206	\$ 25.00	\$ 80,200	
	Fencing WB (On+Off) Ramps (D-A & C-D)	14+56	46+62	3206			FT	3206	\$ 25.00	\$ 80,200	
	Fencing TenMile Rd	100+00	144+00	4400			FT	0	\$ 25.00	\$ -	
	Sub Total									\$ 160,400	
	<b>7. Construction Traffic Control</b>										
	Temporary Traffic Control EB (Off+On) Ramps	13+37	45+43	3206			FT	3206	\$ 40.00	\$ 128,200	
	Temporary Traffic Control WB (On+Off) Ramps	14+56	46+62	3206			FT	3206	\$ 40.00	\$ 128,200	
	Temporary Traffic Control TenMile Rd	100+00	144+00	4400			FT	4400	\$ 80.00	\$ 352,000	
	Sub Total									\$ 608,400	
	<b>8. Utilities</b>										
	Utilities EB (Off+On) Ramps	13+37	45+43	3206			FT	3206	\$ 8.00	\$ 25,600	
	Utilities WB (On+Off) Ramps	14+56	46+62	3206			FT	3206	\$ 8.00	\$ 25,600	
	Utilities TenMile Rd	100+00	144+00	4400			FT	4400	\$ 24.00	\$ 105,600	
	Sub Total									\$ 156,800	

APPENDIX C

COST ESTIMATE SUMMARY

ALTERNATIVE 3: MODIFIED SE-LOOP

**TEN-MILE RD INTERCHANGE STUDY  
ALTERNATIVE-3 : MODIFIED SE-LOOP  
COST ESTIMATE SUMMARY**

Date: 6/23/2005

	1-84 WIDEN (3-LANE)	MERIDIAN I/C EB LOOP ON-RAMP	NEW MERIDIAN I/C
INTERCHANGE	TEN-MILE RD	COST_ESTIMATE	LOOP ON-RAMP
COST_ESTIMATE*	COST_ESTIMATE*	(add 1-12-foot lane & 10-ft shoulder)	COST_ESTIMATE

<b>I. RIGHT OF WAY</b>					
Year 2005 Market Value	\$ 7,800,000	\$ 1,200,000	\$ 900,000	\$ -	\$ 1,600,000

**II. CONSTRUCTION**

1. Grading (Earthwork)	\$ 1,649,000	\$ 225,000	\$ 473,000	\$ 176,000	\$ 2,464,000
2. Structures	\$ 2,700,000	\$ 288,000	\$ 336,000	\$ 200,000	\$ 2,900,000
3. Pavement Surfacing & Base	\$ 1,597,000	\$ 880,000	\$ 2,643,000	\$ 547,000	\$ 1,564,000
4. Drainage & Irrigation	\$ 657,000	\$ 362,000	\$ 1,000,000	\$ 255,000	\$ 687,000
5. Roadside Development	\$ 155,000	\$ 38,000	\$ 240,000	\$ 38,000	\$ 191,000
6. Traffic Services & Safety	\$ 1,062,000	\$ 321,000	\$ 1,160,000	\$ 217,000	\$ 824,000
7. Construction Traffic Control	\$ 485,600	\$ 120,800	\$ 800,000	\$ 254,800	\$ 599,200
8. Utilities	\$ 117,100	\$ 24,200	\$ 160,000	\$ 51,000	\$ 119,900
9. Mobilization	\$ 842,000	\$ 226,000	\$ 681,000	\$ 174,000	\$ 935,000
10. Contingencies & Miscellaneous	\$ 2,779,000	\$ 746,000	\$ 2,248,000	\$ 574,000	\$ 3,085,000
11. Construction Engineering	\$ 1,445,000	\$ 388,000	\$ 1,169,000	\$ 298,000	\$ 1,604,000
		Meridian Staged Construction add 40%			\$ 6,949,000

<b>10. CONSTRUCTION TOTAL :</b>	\$ 13,500,000	\$ 3,700,000	\$ 11,000,000	\$ 3,000,000	\$ 22,200,000
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<b>III. PRELIMINARY ENGINEER &amp; ENVIRN.</b>	\$ 2,100,000	\$ 600,000	\$ 1,700,000	\$ 500,000	\$ 2,400,000
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<b>IV. SUB-TOTAL ESTIMATED COST</b>	\$ 23,400,000	\$ 5,500,000	\$ 13,600,000	\$ 3,500,000	\$ 26,200,000
Lines I, II and III (2005 Dollars)					

<b>V. TOTAL ESTIMATED COST</b> Columns I, II, III and IV (2005 Dollars)					<b>\$ 72,000,000</b>
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\* Ten Mile Rd from south of I-84 to 600' north of I-84 WB Ramp Intersection is included with interchange cost estimate.  
File: TenMile-Alt-3.rxs  
Sheet: Alt-3 Cost Estimate Summary

# TEN-MILE ROAD INTERCHANGE STUDY ALTERNATIVE-3 : MODIFIED SE-LOOP INTERCHANGE COST ESTIMATE

Date: 6/21/2005

**I. RIGHT OF WAY**

1. Year 2005 Assessment	\$ 5,324,300	
2. Relocation and Miscellaneous	\$ 1,095,550	
Year 2005 Market Value		120 % of lines 1+2
		<b>Rounded Totals</b>
		\$ 7,704,000 \$ 7,800,000

**II. CONSTRUCTION**

1. Grading (Earthwork)		
Clear & Grub, Demolition	\$ 108,300	
Roadway Excavation	\$ 79,400	
Borrow & Compaction	\$ 1,461,700	
		\$ 1,649,000
2. Structures		
Bridges & Box Culverts	\$ 2,700,000	
Retaining Walls	\$ -	
		\$ 2,700,000
3. Pavement Surfacing & Base		
Paving Type: ACP CL.II	\$ 979,800	
Base Type: CSBC	\$ 617,200	
		\$ 1,597,000
4. Drainage & Irrigation		
Drainage	\$437,900	
Irrigation	\$219,000	
		\$657,000
5. Roadside Development		
Seeding, Fertilizer and Mulching	\$ 41,100	
Temp. Water & Pollution Control	\$ 39,900	
Planting	\$ 74,000	
		\$ 155,000
6. Traffic Services & Safety		
Concrete sidewalk	\$ 187,500	
Signals	\$ 400,000	
Illumination	\$ 241,100	
Signing & Striping	\$ 101,800	
Fencing	\$ 131,600	
		\$ 1,062,000
7. Construction Traffic Control		\$ 485,600
8. Utilities		\$ 117,100
9. Mobilization	10% of Lines 1 to 8	\$ 842,000
10. Contingencies & Miscellaneous	30% of Lines 1 to 9	\$ 2,779,000
11. Construction Engineering	12% of Lines 1 to 10	\$ 1,445,000
12. CONSTRUCTION TOTAL :	Lines 1 to 11	\$ 13,489,000 \$ 13,500,000

**III. PRELIMINARY ENGINEERING & ENVIRONMENTAL**

	15% of Line 12	
		\$ 2,023,000 \$ 2,100,000

**V. TOTAL ESTIMATED COST - Lines I, II and III (2005 Dollars) \$ 23,220,000 \$ 23,400,000**

Interchange Right of Way

RIGHT OF WAY CALC. (Ada County Assessor Records):															
Parcel No.	Address	Zone Code	State Category_Code	From STA	To STA	Side LT RT	Length (FT)	Width (FT)	Area Take (FT <sup>2</sup> )	Land Assess / (FT <sup>2</sup> )	Land Cost/ (FT <sup>2</sup> )	Structure	Total Assess	Relocation & Miscel.	Comments
S1222110046	1751 S. Ten Mile Rd, Meridian, ID 83642	R1	120-Residential Tract	110+27	112+45	LT	218	35	7630	\$ 0.90	\$ 5.00		\$ 38,200		
S1223223300	1620 S. Ten Mile Rd, Meridian, ID 83642	RUT	120-Residential Tract	110+27	112+20	RT	193	35	6755	\$ 1.24	\$ 5.00		\$ 33,800		
R1389330090	1581 S. Ten Mile Rd, Meridian, ID 83642	R1	150-Res Sub Lot	112+45	114+98	LT	253	180.44	45651	\$ 1.31	\$ 5.00	\$ 99,800	\$ 328,100	\$ 164,050	Full Take
S1214336310	1520 S. Ten Mile Rd, Meridian, ID 83642	RUT	120-Residential Tract	112+71	115+12	RT	241	361.49	87119	\$ 1.09	\$ 5.00	\$ 94,500	\$ 530,100	\$ 265,050	Full Take
R1389330010	1356 N. Tasa PL, Meridian, ID 83642	R1	150-Res Sub Lot	120+67	123+32	LT	265	141.36	37460	\$ 1.33	\$ 5.00	\$ 76,600	\$ 263,900	\$ 131,950	Full Take
R1389330020	1320 N. Tasa PL, Meridian, ID 83642	R1	150-Res Sub Lot	122+80	123+32	LT	52	90	4680	\$ 1.15	\$ 5.00	\$ -	\$ 23,400		
R1389330005	1382 N. Tasa PL, Meridian, ID 83642	R1	150-Res Sub Lot	119+24	120+67	LT	143	236.38	33802	\$ 1.33	\$ 5.00	\$ 91,900	\$ 260,900	\$ 130,450	Full Take
S1215449600	1485 S. Ten Mile Rd, Meridian, ID 83642	R1	120-Residential Tract	116+93	119+24	LT	231	188.57	43560	\$ 1.15	\$ 5.00	\$ 107,500	\$ 325,300	\$ 162,650	Full Take
S1214336305	S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	116+50	123+35	RT	685	450	308250	\$ 0.23	\$ 5.00		\$ 1,541,300		
R1389330100	1505 S. Ten Mile Rd, Meridian, ID 83642	R1	150-Res Sub Lot	114+98	116+40	LT	142	50	7100	\$ 1.17	\$ 5.00		\$ 35,500		
S1214336305	S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	115+12	116+50	RT	138	40	5520	\$ 0.23	\$ 5.00		\$ 27,600		
S1215417500	1155 S. Ten Mile Rd, Meridian, ID 83642	RUT	120-Residential Tract	125+32	129+07	LT	375	232.32	87120	\$ 0.80	\$ 5.00	\$ 47,200	\$ 482,800	\$ 241,400	Full Take
S1215417262	S. Ten Mile Rd, Meridian, ID 83642	RUT	10-Irrigated Ag	125+32	129+07	LT	375	150	56250	\$ 0.03	\$ 5.00		\$ 281,300		
S1214325410	980 S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	125+33	128+83	RT	350	200	70000	\$ 1.09	\$ 5.00		\$ 350,000		
S1214325500	S. Ten Mile Rd, Meridian, ID 83642	RUT	10-Irrigated Ag	125+33	128+83	RT	350	313	109550	\$ 0.02	\$ 5.00		\$ 547,800		
S1214325410	980 S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	128+83	137+38	RT	855	30	25650	\$ 1.09	\$ 5.00		\$ 128,300		
S1215417262	S. Ten Mile Rd, Meridian, ID 83642	RUT	10-Irrigated Ag	129+07	136+27	LT	720	35	25200	\$ 0.03	\$ 5.00		\$ 126,000		
Total (17)									961298	\$ 5.00		\$ 517,500	\$ 5,324,300	\$ 1,095,550	(6)Full Take

Interchange Quantities

<b>QUANTITY CALC.</b>											
Item No.	From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments	
<b>1. Grading (Earthwork)</b>											
Clear & Grub, Demolition:											
EB Off Ramp (A-B)	11+21	30+00	1879	63		ACRE	2.71	\$ 5,000.00	\$ 13,600		
EB On Ramp (B-C)	30+00	53+14	2314	58		ACRE	3.08	\$ 5,000.00	\$ 15,400		
WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946	77		ACRE	5.20	\$ 5,000.00	\$ 26,000		
Driveway Relocation	0+00	15+00	1500	50		ACRE	1.72	\$ 5,000.00	\$ 8,600		
TenMile Rd	110+50	135+50	2500	156		ACRE	8.95	\$ 5,000.00	\$ 44,700		
Sub Total							21.66		\$ 108,300		
Roadway Excavation incl. Haul:											
EB Off Ramp (A-B)	11+21	30+00	1879			YD <sup>3</sup>	2454	\$ 5.00	\$ 12,300		
EB On Ramp (B-C)	30+00	53+14	2314			YD <sup>3</sup>	1433	\$ 5.00	\$ 7,200		
WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946			YD <sup>3</sup>	2687	\$ 5.00	\$ 13,400		
TenMile Rd	110+50	135+50	2500			YD <sup>3</sup>	9307	\$ 5.00	\$ 46,500		
Sub Total							15881		\$ 79,400		
Borrow:											
EB Off Ramp (A-B)	11+21	30+00	1879			YD <sup>3</sup>	7271	\$ 10.00	\$ 72,700		
EB On Ramp (B-C)	30+00	53+14	2314			YD <sup>3</sup>	4592	\$ 10.00	\$ 45,900		
WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946			YD <sup>3</sup>	30857	\$ 10.00	\$ 308,600		
Driveway Relocation	0+00	15+00	1500			YD <sup>3</sup>	25300	\$ 10.00	\$ 253,000		
TenMile Rd	110+50	135+50	2500			YD <sup>3</sup>	44419	\$ 10.00	\$ 444,200		
Sub Total			11139				112439		\$ 1,124,400		
Embankment Compaction:											
Sub Total	00+00	00+00	11139			YD <sup>3</sup>	112439	\$ 3.00	\$ 337,300		
Borrow & Compaction Total:									\$ 1,461,700		
<b>2. Structures</b>											
Retaining Walls:											
-----	-	-	0		0	FT <sup>2</sup>	0	\$ 50.00	\$ -		
Sub Total									\$ -		

QUANTITY CALC.											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
	Bridges & Box Culverts:										
	TenMile Rd Bridge overpass I-84	123+07	125+57	250	90		FT <sup>2</sup>	22500	\$ 120.00	\$ 2,700,000	
	Sub Total									\$ 2,700,000	
	<b>3. Pavement Surfacing &amp; Base</b>										
	EB Off Ramp (A-B) ACP CL.B	11+21	30+00	1879	30	0.5	T	2140	\$ 60.00	\$ 128,400	
	EB On Ramp (B-C) ACP CL.B	30+00	53+14	2314	30	0.5	T	2635	\$ 60.00	\$ 158,100	
	WB (On+Off) Ramps (D-A & C-D) ACP CL B	13+97	43+43	2946	30	0.5	T	3355	\$ 60.00	\$ 201,300	
	Driveway Relocation (ACP) Class II	0+00	15+00	1500	24	0.5	T	1367	\$ 60.00	\$ 82,000	
	TenMile Rd Asphalt Concrete Pavement (ACP) Class B	110+50	135+50	2500	72	0.5	T	6833	\$ 60.00	\$ 410,000	
	Sub Total									\$ 979,800	
	EB Off Ramp (A-B) CSBC	11+21	30+00	1879	40	0.75	YD <sup>3</sup>	2088	\$ 40.00	\$ 83,500	
	EB (Off+On) Ramps (A-B & B-C) CSBC	30+00	53+14	2314	40	0.75	YD <sup>3</sup>	2571	\$ 40.00	\$ 102,800	
	WB (On+Off) Ramps (D-A & C-D) CSBC	13+97	43+43	2946	40	0.75	YD <sup>3</sup>	3273	\$ 40.00	\$ 130,900	
	Driveway Relocation (CSBC)	0+00	15+00	1500	30	0.75	YD <sup>3</sup>	1250	\$ 40.00	\$ 50,000	
	TenMile Rd Crushed Surface Base Course (CSBC)	110+50	135+50	2500	90	0.75	YD <sup>3</sup>	6250	\$ 40.00	\$ 250,000	
	Sub Total									\$ 617,200	
	<b>4. Drainage &amp; Irrigation</b>										
	Drainage:										
	EB Off Ramp (A-B)	11+21	30+00	1879	30		YD <sup>2</sup>	6263	\$ 10.00	\$ 62,600	
	EB On Ramp (B-C)	30+00	53+14	2314	30		YD <sup>2</sup>	7713	\$ 10.00	\$ 77,100	
	WB (On+Off) Ramps	13+97	43+43	2946	30		YD <sup>2</sup>	9820	\$ 10.00	\$ 98,200	
	TenMile Rd	110+50	135+50	2500	72		YD <sup>2</sup>	20000	\$ 10.00	\$ 200,000	
	Sub Total									\$ 437,900	
	Irrigation:										
	EB Off Ramp (A-B)	11+21	30+00	1879	30		YD <sup>2</sup>	6263	\$ 5.00	\$ 31,300	
	EB On Ramp (B-C)	30+00	53+14	2314	30		YD <sup>2</sup>	7713	\$ 5.00	\$ 38,600	

Interchange Quantities

<b>QUANTITY CALC.</b>											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
	WB (On+Off) Ramps	13+97	43+43	2946	30		YD <sup>2</sup>	9820	\$ 5.00	\$ 49,100	
	TenMile Rd	110+50	135+50	2500	72		YD <sup>2</sup>	20000	\$ 5.00	\$ 100,000	
	Sub Total									\$ 219,000	
	<b>5. Roadside Development</b>										
	Seeding, Fertilizer, and Mulching EB Off Ramp	11+21	30+00	1879	23		ACRE	0.99	\$ 5,000.00	\$ 4,900	
	Seeding, Fertilizer, and Mulching EB On Ramp	30+00	53+14	2314	18		ACRE	0.95	\$ 5,000.00	\$ 4,800	
	Seeding, Fertilizer, and Mulching WB (On+Off) Ramps	13+97	43+43	2946	37		ACRE	2.50	\$ 5,000.00	\$ 12,500	
	Seeding, Fertilizer, and Mulching TenMile Rd	110+50	135+50	2500	66		ACRE	3.78	\$ 5,000.00	\$ 18,900	
	Sub Total									\$ 41,100	
	Temporary Water and Pollution Control EB Off Ramp	11+21	30+00	1879	63		ACRE	2.71	\$ 2,000.00	\$ 5,400	
	Temporary Water and Pollution Control EB On Ramp	30+00	53+14	2314	58		ACRE	3.08	\$ 2,000.00	\$ 6,200	
	Temporary Water and Pollution Control WB (Off+On) Ramps	13+97	43+43	2946	77		ACRE	5.20	\$ 2,000.00	\$ 10,400	
	Temporary Water and Pollution Control TenMile Rd	110+50	135+50	2500	156		ACRE	8.95	\$ 2,000.00	\$ 17,900	
	Sub Total									\$ 39,900	
	Planting EB Off Ramp (A-B)	11+21	30+00	1879			ACRE	0.99	\$ 9,000.00	\$ 8,900	
	Planting EB On Ramp (B-C)	30+00	53+14	2314			ACRE	0.95	\$ 9,000.00	\$ 8,600	
	Planting WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946			ACRE	2.50	\$ 9,000.00	\$ 22,500	
	Planting TenMile Rd	110+50	135+50	2500			ACRE	3.78	\$ 9,000.00	\$ 34,000	
	Sub Total									\$ 74,000	
	<b>6. Traffic Services &amp; Safety</b>										
	Concrete Barrier	-	-	0			FT	0	\$ 40.00	\$ -	
	Sub Total									\$ -	
	TenMile Rd Cement Concrete Sidewalk	110+50	135+50	2500	15		YD <sup>2</sup>	4167	\$ 45.00	\$ 187,500	
	Sub Total									\$ 187,500	
	Signal TenMile Rd @ EB (Off+On) Ramps (A-B & B-C)	117+40	117+40				EACH		\$ 200,000.00	\$ 200,000	

<b>QUANTITY CALC.</b>											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
	Signal TenMile Rd @ WB (On+Off) Ramps (D-A & C-D)	127+87	127+87				EACH		\$ 200,000.00	\$ 200,000	
	Sub Total									\$ 400,000	
	Illumination EB Off Ramp (A-B)	11+21	30+00	1879			EACH	9	\$ 5,000.00	\$ 47,000	
	Illumination EB On Ramp (B-C)	30+00	53+14	2314			EACH	12	\$ 5,000.00	\$ 57,900	
	Illumination WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946			EACH	15	\$ 5,000.00	\$ 73,700	
	Illumination TenMile Rd	110+50	135+50	2500			EACH	13	\$ 5,000.00	\$ 62,500	
	Sub Total									\$ 241,100	
	Signing EB Off Ramp (A-B)	11+21	30+00	1879			EACH	188	\$ 70.00	\$ 13,200	
	Signing EB On Ramp (B-C)	30+00	53+14	2314			EACH	231	\$ 70.00	\$ 16,200	
	Signing WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946			EACH	295	\$ 70.00	\$ 20,600	
	Signing TenMile Rd	110+50	135+50	2500			EACH	250	\$ 70.00	\$ 17,500	
	Sub Total									\$ 67,500	
	Pavement Marking EB Off Ramp (A-B)	11+21	30+00	1879			FT	3758	\$ 1.00	\$ 3,800	
	Pavement Marking EB On Ramp (B-C)	30+00	53+14	2314			FT	4628	\$ 1.00	\$ 4,600	
	Pavement Marking WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946			FT	5892	\$ 1.00	\$ 5,900	
	Pavement Marking TenMile Rd	110+50	135+50	2500			FT	20000	\$ 1.00	\$ 20,000	
	Sub Total									\$ 34,300	
	Signing & Striping Total									\$ 101,800	
	Fencing EB Off Ramp (A-B)	11+21	30+00	1879			FT	0	\$ 25.00	\$ -	
	Fencing EB On Ramp (B-C)	30+00	53+14	2314			FT	2314	\$ 25.00	\$ 57,900	
	Fencing WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946			FT	2946	\$ 25.00	\$ 73,700	
	Fencing TenMile Rd	110+50	135+50	2500			FT	0	\$ 25.00	\$ -	
	Sub Total									\$ 131,600	
	<b>7. Construction Traffic Control</b>										
	Temporary Traffic Control EB Off Ramp	11+21	30+00	1879			FT	1879	\$ 40.00	\$ 75,200	
	Temporary Traffic Control EB On Ramp	30+00	53+14	2314			FT	2314	\$ 40.00	\$ 92,600	
	Temporary Traffic Control WB (On+Off) Ramps	13+97	43+43	2946			FT	2946	\$ 40.00	\$ 117,800	
	Temporary Traffic Control TenMile Rd	110+50	135+50	2500			FT	2500	\$ 80.00	\$ 200,000	
	Sub Total									\$ 485,600	

Interchange Quantities

QUANTITY CALC.											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
	<b>8. Utilities</b>										
	Utilities EB Off Ramp	11+21	30+00	1879			FT	1879	\$ 8.00	\$ 15,000	
	Utilities EB On Ramp	30+00	53+14	2314			FT	2314	\$ 8.00	\$ 18,500	
	Utilities WB (On+Off) Ramps	13+97	43+43	2946			FT	2946	\$ 8.00	\$ 23,600	
	Utilities TenMile Rd	110+50	135+50	2500			FT	2500	\$ 24.00	\$ 60,000	
	Sub Total									\$ 117,100	



APPENDIX D

COST ESTIMATE SUMMARY

ALTERNATIVE 4: MODIFIED SW-LOOP

**TEN-MILE RD INTERCHANGE STUDY  
ALTERNATIVE-4 : MODIFIED SW-LOOP  
COST ESTIMATE SUMMARY**

Date: 6/23/2005

	1-84 WIDEN (3-LANE)	MERIDIAN I/C EB LOOP ON-RAMP	NEW MERIDIAN I/C
INTERCHANGE	TEN-MILE RD	COST_ESTIMATE	
COST_ESTIMATE*	COST_ESTIMATE*	(add 1-12-foot lane & 10-ft shoulder)	COST_ESTIMATE COST_ESTIMATE

<b>I. RIGHT OF WAY</b>	
Year 2005 Market Value	\$ 10,500,000 \$ 1,200,000 \$ 900,000 \$ - \$ 1,600,000

<b>II. CONSTRUCTION</b>	
1. Grading (Earthwork)	\$ 1,691,000 \$ 225,000 \$ 473,000 \$ 176,000 \$ 2,464,000
2. Structures	\$ 2,700,000 \$ 288,000 \$ 336,000 \$ 200,000 \$ 2,900,000
3. Pavement Surfacing & Base	\$ 1,933,000 \$ 880,000 \$ 2,643,000 \$ 547,000 \$ 1,564,000
4. Drainage & Irrigation	\$ 728,000 \$ 362,000 \$ 1,000,000 \$ 255,000 \$ 687,000
5. Roadside Development	\$ 173,000 \$ 38,000 \$ 240,000 \$ 38,000 \$ 191,000
6. Traffic Services & Safety	\$ 1,102,000 \$ 321,000 \$ 1,160,000 \$ 217,000 \$ 824,000
7. Construction Traffic Control	\$ 546,600 \$ 120,800 \$ 800,000 \$ 254,800 \$ 599,200
8. Utilities	\$ 129,400 \$ 24,200 \$ 160,000 \$ 51,000 \$ 119,900
9. Mobilization	\$ 900,000 \$ 226,000 \$ 681,000 \$ 174,000 \$ 935,000
10. Contingencies & Miscellaneous	\$ 2,971,000 \$ 746,000 \$ 2,248,000 \$ 574,000 \$ 3,085,000
11. Construction Engineering	\$ 1,545,000 \$ 388,000 \$ 1,169,000 \$ 298,000 \$ 1,604,000
	Meridian Staged Construction add 40% \$ 6,949,000

10. CONSTRUCTION TOTAL :	\$ 14,500,000 \$ 3,700,000 \$ 11,000,000 \$ 3,000,000 \$ 22,200,000
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III. PRELIMINARY ENGINEER & ENVIRN.	\$ 2,200,000 \$ 600,000 \$ 1,700,000 \$ 500,000 \$ 2,400,000
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<b>IV. SUB-TOTAL ESTIMATED COST</b>	
Lines I, II and III (2005 Dollars)	\$ 27,200,000 \$ 5,500,000 \$ 13,600,000 \$ 3,500,000 \$ 26,200,000

<b>V. TOTAL ESTIMATED COST - Columns I, II, III and IV (2005 Dollars)</b>	<b>\$ 76,000,000</b>
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\* Ten Mile Rd from south of I-84 to 600' north of I-84 WB Ramp Intersection is included with Interchange cost estimate.  
File: TenMile-Alt-4r.xls  
Sheet: Alt-4 Cost Estimate Summary

**TEN-MILE ROAD INTERCHANGE STUDY  
ALTERNATIVE-4 : MODIFIED SW-LOOP  
INTERCHANGE COST ESTIMATE**

Date: 6/21/2005

**I. RIGHT OF WAY**

1. Year 2005 Assessment	\$ 6,624,900	
2. Relocation and Miscellaneous	\$ 2,089,800	
Year 2005 Market Value		120 % of lines 1+2
		<b>Rounded Totals</b>
		\$ 10,458,000 \$ 10,500,000

**II. CONSTRUCTION**

1. Grading (Earthwork)		
Clear & Grub, Demolition	\$ 119,000	
Roadway Excavation	\$ 109,200	
Borrow & Compaction	\$ 1,462,500	
		<b>\$ 1,691,000</b>
2. Structures		
Bridges & Box Culverts	\$ 2,700,000	
Retaining Walls	\$ -	
		<b>\$ 2,700,000</b>
3. Pavement Surfacing & Base		
Paving Type: ACP CL.II	\$ 1,257,200	
Base Type: CSBC	\$ 675,300	
		<b>\$ 1,933,000</b>
4. Drainage & Irrigation		
Drainage	\$485,600	
Irrigation	\$242,800	
		<b>\$728,000</b>
5. Roadside Development		
Seeding, Fertilizer, and Mutching	\$ 46,000	
Temp. Water & Pollution Control	\$ 44,300	
Planting	\$ 82,600	
		<b>\$ 173,000</b>
6. Traffic Services & Safety		
Concrete sidewalk	\$ 187,500	
Signals	\$ 400,000	
Illumination	\$ 279,200	
Signaling & Striping	\$ 115,500	
Fencing	\$ 119,500	
		<b>\$ 1,102,000</b>
7. Construction Traffic Control		
		<b>\$ 546,600</b>
8. Utilities		
		<b>\$ 129,400</b>
9. Mobilization		
	10% of Lines 1 to 8	<b>\$ 900,000</b>
10. Contingencies & Miscellaneous		
	30% of Lines 1 to 9	<b>\$ 2,971,000</b>
11. Construction Engineering		
	12% of Lines 1 to 10	<b>\$ 1,545,000</b>
12. CONSTRUCTION TOTAL:	Lines 1 to 11	<b>\$ 14,419,000 \$ 14,500,000</b>
III. PRELIMINARY ENGINEERING & ENVIRONMENTAL	15% of Line 12	<b>\$ 2,163,000 \$ 2,200,000</b>
IV. TOTAL ESTIMATED COST Lines I, II and III (2005 Dollars)		<b>\$ 27,040,000 \$ 27,200,000</b>

Interchange Right of Way

RIGHT OF WAY CALC. (Ada County Assessor Records):															
Parcel No.	Address	Zone Code	State Category_Code	From STA	To STA	Side LT RT	Length (FT)	Width (FT)	Area Take (FT <sup>2</sup> )	Land Assess / (FT <sup>2</sup> )	Land Cost/ (FT <sup>2</sup> )	Structure	Total Assess	Relocation & Miscel.	Comments
S1222110046	1751 S. Ten Mile Rd, Meridian, ID 83642	R1	120-Residential Tract	110+27	112+45	LT	218	35	7630	\$ 0.90	\$ 5.00		\$ 38,200		
S1223223300	1620 S. Ten Mile Rd, Meridian, ID 83642	RUT	120-Residential Tract	110+27	112+20	RT	193	35	6755	\$ 1.24	\$ 5.00		\$ 33,800		
R1389330090	1581 S. Ten Mile Rd, Meridian, ID 83642	R1	150-Res Sub Lot	112+45	114+98	LT	253	180.44	45651	\$ 1.31	\$ 5.00	\$ 99,800	\$ 328,100	\$ 164,050	Full Take
S1214336310	1520 S. Ten Mile Rd, Meridian, ID 83642	RUT	120-Residential Tract	112+71	115+12	RT	241	361.49	87119	\$ 1.09	\$ 5.00	\$ 94,500	\$ 530,100	\$ 265,050	Full Take
R1389330100	1505 S. Ten Mile Rd, Meridian, ID 83642	R1	150-Res Sub Lot	114+98	116+40	LT	142	50	7100	\$ 1.17	\$ 5.00		\$ 35,500		
R1389330110	3287 W. Tasa DR, Meridian, ID 83642	R1	150-Res Sub Lot	116+00	117+50	LT	150	241.32	36198	\$ 1.80	\$ 5.00	\$ 120,500	\$ 301,500	\$ 150,750	Full Take
R1389330120	3323 W. Tasa DR, Meridian, ID 83642	R1	150-Res Sub Lot	116+00	118+20	LT	220	181.96	40031	\$ 1.67	\$ 5.00	\$ 41,700	\$ 241,900	\$ 120,950	Full Take
S1214336305	S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	115+12	116+70	RT	158	40	6320	\$ 0.23	\$ 5.00		\$ 31,600		
S1214336305	S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	116+70	117+70	RT	100	1400	140000	\$ 0.23	\$ 5.00		\$ 700,000		
S1214336305	S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	117+70	123+35	RT	565	50	28250	\$ 0.23	\$ 5.00		\$ 141,300		
S1215449600	1485 S. Ten Mile Rd, Meridian, ID 83642	R1	120-Residential Tract	116+93	119+24	LT	231	188.57	43560	\$ 1.15	\$ 5.00	\$ 107,500	\$ 325,300	\$ 162,650	Full Take
R1389330005	1382 N. Tasa PL, Meridian, ID 83642	R1	150-Res Sub Lot	119+24	120+67	LT	143	236.38	33802	\$ 1.33	\$ 5.00	\$ 91,900	\$ 260,900	\$ 130,450	Full Take
R1389330010	1356 N. Tasa PL, Meridian, ID 83642	R1	150-Res Sub Lot	120+67	121+29	LT	62	604.22	37462	\$ 1.33	\$ 5.00	\$ 76,600	\$ 263,900	\$ 131,950	Full Take
R1389330020	1320 N. Tasa PL, Meridian, ID 83642	R1	150-Res Sub Lot	121+29	123+32	LT	203	214.8	43604	\$ 1.15	\$ 5.00	\$ 79,400	\$ 297,400	\$ 148,700	Full Take
R1389330030	1357 N. Tasa PL, Meridian, ID 83642	R1	150-Res Sub Lot	121+30	123+32	LT	202	203.78	41164	\$ 1.21	\$ 5.00	\$ 105,200	\$ 311,000	\$ 155,500	Full Take
R1389330050	3380 W. Tasa DR, Meridian, ID 83642	R1	150-Res Sub Lot	120+00	123+32	LT	332	120.31	39943	\$ 1.25	\$ 5.00	\$ 71,800	\$ 271,500	\$ 135,750	Full Take
R1389330060	3428 W. Tasa DR, Meridian, ID 83642	R1	150-Res Sub Lot	121+00	123+32	LT	232	179.12	41556	\$ 1.20	\$ 5.00	\$ 102,900	\$ 310,700	\$ 155,350	Full Take
R1389330070	3450 W. Tasa DR, Meridian, ID 83642	R1	150-Res Sub Lot	122+00	123+32	LT	132	239.25	31581	\$ 1.42	\$ 5.00	\$ 96,600	\$ 254,500	\$ 127,250	Full Take
R1389330080	3474 W. Tasa DR, Meridian, ID 83642	R1	150-Res Sub Lot	122+62	123+32	LT	70	90	6300	\$ 1.02	\$ 5.00		\$ 31,500		
S1215417500	1155 S. Ten Mile Rd, Meridian, ID 83642	RUT	120-Residential Tract	125+32	129+07	LT	375	232.32	87120	\$ 0.80	\$ 5.00	\$ 47,200	\$ 482,800	\$ 241,400	Full Take
S1215417262	S. Ten Mile Rd, Meridian, ID 83642	RUT	10-Irrigated Ag	125+32	129+07	LT	375	150	56250	\$ 0.03	\$ 5.00		\$ 281,300		
S1214325410	980 S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	125+33	128+83	RT	350	200	70000	\$ 1.09	\$ 5.00		\$ 350,000		
S1214325500	S. Ten Mile Rd, Meridian, ID 83642	RUT	10-Irrigated Ag	125+33	128+83	RT	350	313	109550	\$ 0.02	\$ 5.00		\$ 547,800		
S1214325410	980 S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	128+83	137+38	RT	855	30	25650	\$ 1.09	\$ 5.00		\$ 128,300		
S1215417262	S. Ten Mile Rd, Meridian, ID 83642	RUT	10-Irrigated Ag	129+07	136+27	LT	720	35	25200	\$ 0.03	\$ 5.00		\$ 126,000		
Total (25)									1097796	\$ 5.00		#####	\$ 6,624,900	\$ 2,089,800	(13)Full Take

QUANTITY CALC.											
Item No.	From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments	
<b>1. Grading (Earthwork)</b>											
Clear & Grub, Demolition:											
EB Off Ramp (A-B)	11+68	30+00	1832	57		ACRE	2.38	\$ 5,000.00	\$ 11,900		
EB On Ramp (B-C)	30+00	54+13	2413	65		ACRE	3.59	\$ 5,000.00	\$ 17,900		
WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946	77		ACRE	5.20	\$ 5,000.00	\$ 26,000		
Driveway Relocation	0+00	15+00	1500	50		ACRE	1.72	\$ 5,000.00	\$ 8,600		
TenMile Rd	110+50	135+50	2500	156		ACRE	8.95	\$ 5,000.00	\$ 44,700		
W. Overland Rd Connection	30+00	44+76	1476	59		ACRE	1.98	\$ 5,000.00	\$ 9,900		
Sub Total							23.82		\$ 119,000		
Roadway Excavation incl. Haul:											
EB Off Ramp (A-B)	11+68	30+00	1832			YD <sup>3</sup>	1870	\$ 5.00	\$ 9,400		
EB On Ramp (B-C)	30+00	54+13	2413			YD <sup>3</sup>	7777	\$ 5.00	\$ 38,900		
WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946			YD <sup>3</sup>	2687	\$ 5.00	\$ 13,400		
TenMile Rd	110+50	135+50	2500			YD <sup>3</sup>	9307	\$ 5.00	\$ 46,500		
W. Overland Rd Connection	30+00	44+76	1476			YD <sup>3</sup>	193	\$ 5.00	\$ 1,000		
Sub Total							21834		\$ 109,200		
Borrow:											
EB Off Ramp (A-B)	11+68	30+00	1832			YD <sup>3</sup>	1384	\$ 10.00	\$ 13,800		
EB On Ramp (B-C)	30+00	54+13	2413			YD <sup>3</sup>	4564	\$ 10.00	\$ 45,600		
WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946			YD <sup>3</sup>	30857	\$ 10.00	\$ 308,600		
Driveway Relocation	0+00	15+00	1500			YD <sup>3</sup>	25300	\$ 10.00	\$ 253,000		
TenMile Rd	110+50	135+50	2500			YD <sup>3</sup>	44419	\$ 10.00	\$ 444,200		
W. Overland Rd Connection	30+00	44+76	1476			YD <sup>3</sup>	5981	\$ 10.00	\$ 59,800		
Sub Total			12667				112505		\$ 1,125,000		
Embankment Compaction:											
Sub Total	00+00	00+00	12667			YD <sup>3</sup>	112505	\$ 3.00	\$ 337,500		
Borrow & Compaction Total:									\$ 1,462,500		
<b>2. Structures</b>											

<b>QUANTITY CALC.</b>											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
	Retaining Walls:										
	-----	-	-	0		0	FT <sup>2</sup>	0	\$ 50.00	\$ -	
	Sub Total									\$ -	
	Bridges & Box Culverts:										
	TenMile Rd Bridge overpass I-84	123+07	125+57	250	90		FT <sup>2</sup>	22500	\$ 120.00	\$ 2,700,000	
	Sub Total									\$ 2,700,000	
	<b>3. Pavement Surfacing &amp; Base</b>										
	EB Off Ramp (A-B) ACP CL.B	11+68	30+00	1832	30	0.5	T	2086	\$ 70.00	\$ 146,100	
	EB On Ramp (B-C) ACP CL.B	30+00	54+13	2413	30	0.5	T	2748	\$ 70.00	\$ 192,400	
	WB (On+Off) Ramps (D-A & C-D) ACP CL B	13+97	43+43	2946	30	0.5	T	3355	\$ 70.00	\$ 234,900	
	Driveway Relocation (ACP) Class II	0+00	15+00	1500	24	0.5	T	1367	\$ 70.00	\$ 95,700	
	TenMile Rd Asphalt Concrete Pavement (ACP) Class B	110+50	135+50	2500	72	0.5	T	6833	\$ 70.00	\$ 478,300	
	W. Overland Rd Connection ACP CL.B	30+00	44+76	1476	28	0.5	T	1569	\$ 70.00	\$ 109,800	
	Sub Total									\$ 1,257,200	
	EB Off Ramp (A-B) CSBC	11+68	30+00	1832	40	0.75	YD <sup>3</sup>	2036	\$ 40.00	\$ 81,400	
	EB On Ramp (B-C) CSBC	30+00	54+13	2413	40	0.75	YD <sup>3</sup>	2681	\$ 40.00	\$ 107,200	
	WB (On+Off) Ramps (D-A & C-D) CSBC	13+97	43+43	2946	40	0.75	YD <sup>3</sup>	3273	\$ 40.00	\$ 130,900	
	Driveway Relocation (CSBC)	0+00	15+00	1500	30	0.75	YD <sup>3</sup>	1250	\$ 40.00	\$ 50,000	
	TenMile Rd Crushed Surface Base Course (CSBC)	110+50	135+50	2500	90	0.75	YD <sup>3</sup>	6250	\$ 40.00	\$ 250,000	
	W. Overland Rd Connection CSBC	30+00	44+76	1476	34	0.75	YD <sup>3</sup>	1394	\$ 40.00	\$ 55,800	
	Sub Total									\$ 675,300	
	<b>4. Drainage &amp; Irrigation</b>										
	Drainage:										
	EB Off Ramp (A-B)	11+68	30+00	1832	30		YD <sup>2</sup>	6107	\$ 10.00	\$ 61,100	
	EB On Ramp (B-C)	30+00	54+13	2413	30		YD <sup>2</sup>	8043	\$ 10.00	\$ 80,400	
	WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946	30		YD <sup>2</sup>	9820	\$ 10.00	\$ 98,200	
	TenMile Rd	110+50	135+50	2500	72		YD <sup>2</sup>	20000	\$ 10.00	\$ 200,000	

<b>QUANTITY CALC.</b>											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
	W. Overland Rd Connection	30+00	44+76	1476	28		YD <sup>2</sup>	4592	\$ 10.00	\$ 45,900	
	Sub Total									\$ 485,600	
	Irrigation:										
	EB Off Ramp (A-B)	11+68	30+00	1832	30		YD <sup>2</sup>	6107	\$ 5.00	\$ 30,500	
	EB On Ramp (B-C)	30+00	54+13	2413	30		YD <sup>2</sup>	8043	\$ 5.00	\$ 40,200	
	WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946	30		YD <sup>2</sup>	9820	\$ 5.00	\$ 49,100	
	TenMile Rd	110+50	135+50	2500	72		YD <sup>2</sup>	20000	\$ 5.00	\$ 100,000	
	W. Overland Rd Connection	30+00	44+76	1476	28		YD <sup>2</sup>	4592	\$ 5.00	\$ 23,000	
	Sub Total									\$ 242,800	
	<b>5. Roadside Development</b>										
	Seeding, Fertilizer, and Mulching EB Off Ramp	11+68	30+00	1832	17		ACRE	0.70	\$ 5,000.00	\$ 3,500	
	Seeding, Fertilizer, and Mulching EB On Ramp	30+00	54+13	2413	25		ACRE	1.37	\$ 5,000.00	\$ 6,900	
	Seeding, Fertilizer, and Mulching WB (On+Off) Ramps	13+97	43+43	2946	37		ACRE	2.50	\$ 5,000.00	\$ 12,500	
	Seeding, Fertilizer, and Mulching TenMile Rd	110+50	135+50	2500	66		ACRE	3.78	\$ 5,000.00	\$ 18,900	
	Seeding, Fertilizer, and Mulching Overland Rd Connection	30+00	44+76	1476	25		ACRE	0.83	\$ 5,000.00	\$ 4,200	
	Sub Total									\$ 46,000	
	Temporary Water and Pollution Control EB Off Ramp	11+68	30+00	1832	57		ACRE	2.38	\$ 2,000.00	\$ 4,800	
	Temporary Water and Pollution Control EB On Ramp	30+00	54+13	2413	65		ACRE	3.59	\$ 2,000.00	\$ 7,200	
	Temporary Water and Pollution Control WB (Off+On) Rm	13+97	43+43	2946	77		ACRE	5.20	\$ 2,000.00	\$ 10,400	
	Temporary Water and Pollution Control TenMile Rd	110+50	135+50	2500	156		ACRE	8.95	\$ 2,000.00	\$ 17,900	
	Temporary Water and Pollution Control Overland Rd Cor	30+00	44+76	1476	59		ACRE	1.98	\$ 2,000.00	\$ 4,000	
	Sub Total									\$ 44,300	
	Planting EB Off Ramp (A-B)	11+68	30+00	1832			ACRE	0.70	\$ 9,000.00	\$ 6,300	
	Planting EB On Ramp (B-C)	30+00	54+13	2413			ACRE	1.37	\$ 9,000.00	\$ 12,300	
	Planting WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946			ACRE	2.50	\$ 9,000.00	\$ 22,500	
	Planting TenMile Rd	110+50	135+50	2500			ACRE	3.78	\$ 9,000.00	\$ 34,000	
	Planting W. Overland Rd Connection	30+00	44+76	1476			ACRE	0.83	\$ 9,000.00	\$ 7,500	
	Sub Total									\$ 82,600	

Interchange Quantities

QUANTITY CALC.											
Item No.	From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments	
<b>6. Traffic Services &amp; Safety</b>											
Concrete Barrier	-	-	0			FT	0	\$ 40.00	\$ -		
Sub Total									\$ -		
TenMile Rd Cement Concrete Sidewalk	110+50	135+50	2500	15		YD <sup>2</sup>	4167	\$ 45.00	\$ 187,500		
Sub Total									\$ 187,500		
Signal TenMile Rd @ EB (Off+On) Ramps (A-B & B-C)	117+40	117+40				EACH		\$ 200,000.00	\$ 200,000		
Signal TenMile Rd @ WB (On+Off) Ramps (D-A & C-D)	127+87	127+87				EACH		\$ 200,000.00	\$ 200,000		
Sub Total									\$ 400,000		
Illumination EB Off Ramp (A-B)	11+68	30+00	1832			EACH	9	\$ 5,000.00	\$ 45,800		
Illumination EB On Ramp (B-C)	30+00	54+13	2413			EACH	12	\$ 5,000.00	\$ 60,300		
Illumination WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946			EACH	15	\$ 5,000.00	\$ 73,700		
Illumination TenMile Rd	110+50	135+50	2500			EACH	13	\$ 5,000.00	\$ 62,500		
Illumination W. Overland Rd Connection	30+00	44+76	1476			EACH	7	\$ 5,000.00	\$ 36,900		
Sub Total									\$ 279,200		
Signing EB Off Ramp (A-B)	11+68	30+00	1832			EACH	183	\$ 70.00	\$ 12,800		
Signing EB On Ramp (B-C)	30+00	54+13	2413			EACH	241	\$ 70.00	\$ 16,900		
Signing WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946			EACH	295	\$ 70.00	\$ 20,600		
Signing TenMile Rd	110+50	135+50	2500			EACH	250	\$ 70.00	\$ 17,500		
Signing W. Overland Rd Connection	30+00	44+76	1476			EACH	148	\$ 70.00	\$ 10,300		
Sub Total									\$ 78,100		
Pavement Marking EB Off Ramp (A-B)	11+68	30+00	1832			FT	3664	\$ 1.00	\$ 3,700		
Pavement Marking EB On Ramp (B-C)	30+00	54+13	2413			FT	4826	\$ 1.00	\$ 4,800		
Pavement Marking WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946			FT	5892	\$ 1.00	\$ 5,900		
Pavement Marking TenMile Rd	110+50	135+50	2500			FT	20000	\$ 1.00	\$ 20,000		
Pavement Marking W. Overland Rd Connection	30+00	44+76	1476			FT	2952	\$ 1.00	\$ 3,000		
Sub Total									\$ 37,400		
Signing & Striping Total									\$ 115,500		
Fencing EB Off Ramp (A-B)	11+68	30+00	1832			FT	1832	\$ 25.00	\$ 45,800		

Interchange Quantities

<b>QUANTITY CALC.</b>											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
	Fencing EB On Ramp (B-C)	42+00	54+13	1213			FT	0	\$ 25.00	\$ -	
	Fencing WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946			FT	2946	\$ 25.00	\$ 73,700	
	Fencing TenMile Rd	110+50	135+50	2500			FT	0	\$ 25.00	\$ -	
	Fencing W. Overland Rd Connection	30+00	44+76	1476			FT	0	\$ 25.00	\$ -	
	Sub Total									\$ 119,500	
	<b>7. Construction Traffic Control</b>										
	Temporary Traffic Control EB Off Ramp	11+68	30+00	1832			FT	1832	\$ 40.00	\$ 73,300	
	Temporary Traffic Control EB On Ramp	30+00	54+13	2413			FT	2413	\$ 40.00	\$ 96,500	
	Temporary Traffic Control WB (On+Off) Ramps	13+97	43+43	2946			FT	2946	\$ 40.00	\$ 117,800	
	Temporary Traffic Control TenMile Rd	110+50	135+50	2500			FT	2500	\$ 80.00	\$ 200,000	
	Temporary Traffic Control W. Overland Rd Connection	30+00	44+76	1476			FT	1476	\$ 40.00	\$ 59,000	
	Sub Total									\$ 546,600	
	<b>8. Utilities</b>										
	Utilities EB Off Ramp	11+68	30+00	1832			FT	1832	\$ 8.00	\$ 14,700	
	Utilities EB On) Ramp	30+00	54+13	2413			FT	2413	\$ 8.00	\$ 19,300	
	Utilities WB (On+Off) Ramps	13+97	43+43	2946			FT	2946	\$ 8.00	\$ 23,600	
	Utilities TenMile Rd	110+50	135+50	2500			FT	2500	\$ 24.00	\$ 60,000	
	Utilities W. Overland Rd Connection	30+00	44+76	1476			FT	1476	\$ 8.00	\$ 11,800	
	Sub Total									\$ 129,400	

APPENDIX E

COST ESTIMATE SUMMARY

ALTERNATIVE 5: OFFSET SINGLE POINT

**TEN-MILE RD INTERCHANGE STUDY  
ALTERNATIVE-5 : OFFSET SINGLE POINT  
COST ESTIMATE SUMMARY**

Date: 6/23/2005

	I-84 WIDEN (3-LANE)	MERIDIAN I/C EB LOOP ON-RAMP	NEW MERIDIAN I/C
INTERCHANGE COST_ESTIMATE *	COST_ESTIMATE	COST_ESTIMATE	COST_ESTIMATE
TEN-MILE RD COST_ESTIMATE *			
	(add 1-12-foot lane & 10-ft shoulder)		

**I. RIGHT OF WAY**  
Year 2005 Market Value

	\$ 8,200,000	\$ 1,200,000	\$ 900,000	\$ -	\$ 1,600,000
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**II. CONSTRUCTION**

1. Grading (Earthwork)	\$ 4,183,000	\$ 225,000	\$ 473,000	\$ 176,000	\$ 2,464,000
2. Structures	\$ 8,073,000	\$ 288,000	\$ 336,000	\$ 200,000	\$ 2,900,000
3. Pavement Surfacing & Base	\$ 1,978,000	\$ 880,000	\$ 2,643,000	\$ 547,000	\$ 1,564,000
4. Drainage & Irrigation	\$ 745,000	\$ 362,000	\$ 1,000,000	\$ 255,000	\$ 687,000
5. Roadside Development	\$ 216,000	\$ 38,000	\$ 240,000	\$ 38,000	\$ 191,000
6. Traffic Services & Safety	\$ 864,000	\$ 321,000	\$ 1,160,000	\$ 217,000	\$ 824,000
7. Construction Traffic Control	\$ 555,600	\$ 120,800	\$ 800,000	\$ 254,800	\$ 599,200
8. Utilities	\$ 131,200	\$ 24,200	\$ 160,000	\$ 51,000	\$ 119,900
9. Mobilization	\$ 1,675,000	\$ 226,000	\$ 681,000	\$ 174,000	\$ 935,000
10. Contingencies & Miscellaneous	\$ 5,526,000	\$ 746,000	\$ 2,248,000	\$ 574,000	\$ 3,085,000
11. Construction Engineering	\$ 2,874,000	\$ 388,000	\$ 1,169,000	\$ 298,000	\$ 1,604,000
			Meridian Staged Construction add 40%		\$ 6,949,000

10. CONSTRUCTION TOTAL :

	\$ 26,900,000	\$ 3,700,000	\$ 11,000,000	\$ 3,000,000	\$ 22,200,000
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III. PRELIMINARY ENGINEER & ENVIRN. \$ 4,100,000 \$ 600,000 \$ 1,700,000 \$ 500,000 \$ 2,400,000

**IV. SUB-TOTAL ESTIMATED COST**

Lines I, II and III (2005 Dollars)	\$ 39,200,000	\$ 5,500,000	\$ 13,600,000	\$ 3,500,000	\$ 26,200,000
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**V. TOTAL ESTIMATED COST - Columns I, II, III and IV (2005 Dollars)** \$ 88,000,000

\*Ten Mile Rd from south of I-84 to 600' north of I-84 WB Ramp Intersection is included with Interchange cost estimate.  
File: TenMile-alt-5r.xls  
Sheet: Alt-5 Cost Estimate Summary

**TEN-MILE ROAD INTERCHANGE STUDY  
ALTERNATIVE-5 : OFFSET SINGLE POINT  
INTERCHANGE COST ESTIMATE**

Date: 6/21/2005

I. RIGHT OF WAY		Rounded
1. Year 2005 Assessment	\$ 5,839,800	
2. Relocation and Miscellaneous Year 2005 Market Value	\$ 963,600	
	120 % of lines 1+2	
		\$ 8,164,000
		\$ 8,200,000
<b>II. CONSTRUCTION</b>		
1. Grading (Earthwork)		
Clear & Grub, Demolition	\$ 138,200	
Roadway Excavation	\$ 70,500	
Borrow & Compaction	\$ 3,974,700	
		\$ 4,183,000
2. Structures		
Bridges & Box Culverts	\$ 5,148,000	
Retaining Walls	\$ 2,925,000	
		\$ 8,073,000
3. Pavement Surfacing & Base		
Paving Type: ACP CL.B	\$ 1,282,900	
Base Type: CSBC	\$ 695,200	
		\$ 1,978,000
4. Drainage & Irrigation		
Drainage	\$496,400	
Irrigation	\$248,200	
		\$745,000
5. Roadside Development		
Seeding, Fertilizer, and Mulching	\$ 63,000	
Temp. Water & Pollution Control	\$ 39,000	
Planting	\$ 113,500	
		\$ 216,000
6. Traffic Services & Safety		
Concrete sidewalk	\$ 187,500	
Signals	\$ 200,000	
Illumination	\$ 284,900	
Signaling & Striping	\$ 117,500	
Fencing	\$ 73,700	
		\$ 864,000
7. Construction Traffic Control		
		\$ 555,600
8. Utilities		
		\$ 131,200
9. Mobilization		
	10% of Lines 1 to 8	\$ 1,675,000
10. Contingencies & Miscellaneous		
	30% of Lines 1 to 9	\$ 5,526,000
11. Construction Engineering		
	12% of Lines 1 to 10	\$ 2,874,000
12. CONSTRUCTION TOTAL :		
	Lines 1 to 11	\$ 26,821,000
		\$ 26,900,000
<b>III. PRELIMINARY ENGINEERING &amp; ENVIRONMENTAL</b>		
	15% of Line 12	\$ 4,023,000
		\$ 4,100,000
<b>IV. TOTAL ESTIMATED COST Lines II and III (2005 Dollars)</b>		
		\$ 39,010,000
		\$ 39,200,000

Interchange Right of Way

RIGHT OF WAY CALC. (Ada County Assessor Records):															
Parcel No.	Address	Zone Code	State Category_Code	From STA	To STA	Side LT RT	Length (FT)	Width (FT)	Area Take (FT <sup>2</sup> )	Land Assess / (FT <sup>2</sup> )	Land Cost/ (FT <sup>2</sup> )	Structure	Total Assess	Relocation & Miscel.	Comments
S1222110046	1751 S. Ten Mile Rd, Meridian, ID 83642	R1	120-Residential Tract	110+27	112+45	LT	218	35	7630	\$ 0.90	\$ 5.00		\$ 38,200		
S1223223300	1620 S. Ten Mile Rd, Meridian, ID 83642	RUT	120-Residential Tract	110+27	112+20	RT	193	35	6755	\$ 1.24	\$ 5.00		\$ 33,800		
R1389330090	1581 S. Ten Mile Rd, Meridian, ID 83642	R1	150-Res Sub Lot	112+45	114+98	LT	253	180.44	45651	\$ 1.31	\$ 5.00	\$ 99,800	\$ 328,100	\$ 164,050	Full Take
S1214336310	1520 S. Ten Mile Rd, Meridian, ID 83642	RUT	120-Residential Tract	112+71	115+12	RT	241	361.49	87119	\$ 1.09	\$ 5.00	\$ 94,500	\$ 530,100	\$ 265,050	Full Take
R1389330100	1505 S. Ten Mile Rd, Meridian, ID 83642	R1	150-Res Sub Lot	114+98	116+40	LT	142	35	4970	\$ 1.17	\$ 5.00		\$ 24,900		
S1214336305	S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	115+12	119+83	RT	471	40	18840	\$ 0.23	\$ 5.00		\$ 94,200		
S1214336305	S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	119+83	123+35	RT	352	450	158400	\$ 0.23	\$ 5.00		\$ 792,000		
S1215449600	1485 S. Ten Mile Rd, Meridian, ID 83642	R1	120-Residential Tract	116+93	119+24	LT	231	188.57	43560	\$ 1.15	\$ 5.00	\$107,500	\$ 325,300	\$ 162,650	Full Take
R1389330005	1382 N. Tasa PL, Meridian, ID 83642	R1	150-Res Sub Lot	119+24	120+67	LT	143	236.38	33802	\$ 1.33	\$ 5.00	\$ 91,900	\$ 260,900	\$ 130,450	Full Take
R1389330010	1356 N. Tasa PL, Meridian, ID 83642	R1	150-Res Sub Lot	120+67	123+32	LT	265	60	15900	\$ 1.33	\$ 5.00		\$ 79,500		
R1389330020	1320 N. Tasa PL, Meridian, ID 83642	R1	150-Res Sub Lot	122+72	123+32	LT	60	70	4200	\$ 1.15	\$ 5.00		\$ 21,000		
R1389330060	3428 W. Tasa DR, Meridian, ID 83642	R1	150-Res Sub Lot	122+90	123+30	LT	40	50	2000	\$ 1.20	\$ 5.00		\$ 10,000		
R1389330070	3450 W. Tasa DR, Meridian, ID 83642	R1	150-Res Sub Lot	122+90	123+30	LT	40	163	6520	\$ 1.42	\$ 5.00		\$ 32,600		
R1389330080	3450 W. Tasa DR, Meridian, ID 83642	R1	150-Res Sub Lot	122+90	123+10	LT	20	280	5600	\$ 1.02	\$ 5.00		\$ 28,000		
S1215438450	W. Tasa DR, Meridian, ID 83642	R1	10-Irrigated Ag	122+10	123+10	LT	100	450	45000	\$ 0.01	\$ 5.00		\$ 225,000		
S1214336305	S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	122+30	123+30	RT	100	2200	220000	\$ 0.23	\$ 5.00		\$ 1,100,000		
S1215417500	1155 S. Ten Mile Rd, Meridian, ID 83642	RUT	120-Residential Tract	125+32	129+07	LT	375	232.32	87120	\$ 0.80	\$ 5.00	\$ 47,200	\$ 482,800	\$ 241,400	Full Take
S1215417262	S. Ten Mile Rd, Meridian, ID 83642	RUT	10-Irrigated Ag	125+32	129+07	LT	375	150	56250	\$ 0.03	\$ 5.00		\$ 281,300		
S1214325410	980 S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	125+33	128+83	RT	350	200	70000	\$ 1.09	\$ 5.00		\$ 350,000		
S1214325500	S. Ten Mile Rd, Meridian, ID 83642	RUT	10-Irrigated Ag	125+33	128+83	RT	350	313	109550	\$ 0.02	\$ 5.00		\$ 547,800		
S1214325410	980 S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	128+83	137+38	RT	855	30	25650	\$ 1.09	\$ 5.00		\$ 128,300		
S1215417262	S. Ten Mile Rd, Meridian, ID 83642	RUT	10-Irrigated Ag	129+07	136+27	LT	720	35	25200	\$ 0.03	\$ 5.00		\$ 126,000		
Total (22)									1079717	\$ 5.00		\$440,900	\$ 5,839,800	\$ 963,600	(5)Full Take

Interchange Quantities

<b>QUANTITY CALC.</b>											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
<b>1. Grading (Earthwork)</b>											
Clear & Grub, Demolition:											
	EB (Off+On) Ramps (A-B & B-C)	00+24	59+70	5946	86		ACRE	11.79	\$ 5,000.00	\$ 58,900	
	WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946	77		ACRE	5.20	\$ 5,000.00	\$ 26,000	
	Driveway Relocation	0+00	15+00	1500	50		ACRE	1.72	\$ 5,000.00	\$ 8,600	
	TenMile Rd	110+50	135+50	2500	156		ACRE	8.95	\$ 5,000.00	\$ 44,700	
	Sub Total							27.66		\$ 138,200	
Roadway Excavation incl. Haul:											
	EB (Off+On) Ramps (A-B & B-C)	16+57	46+03	2946			YD <sup>3</sup>	2113	\$ 5.00	\$ 10,600	
	WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946			YD <sup>3</sup>	2687	\$ 5.00	\$ 13,400	
	TenMile Rd	110+50	135+50	2500			YD <sup>3</sup>	9307	\$ 5.00	\$ 46,500	
	Sub Total							14107		\$ 70,500	
Borrow:											
	EB (Off+On) Ramps (A-B & B-C)	16+57	46+03	2946			YD <sup>3</sup>	205172	\$ 10.00	\$ 2,051,700	
	WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946			YD <sup>3</sup>	30857	\$ 10.00	\$ 308,600	
	Driveway Relocation	0+00	15+00	1500	50		YD <sup>3</sup>	25300	\$ 10.00	\$ 253,000	
	TenMile Rd	110+50	135+50	2500			YD <sup>3</sup>	44419	\$ 10.00	\$ 444,200	
	Sub Total			9892				305748		\$ 3,057,500	
Embankment Compaction:											
	Sub Total	00+00	00+00	9892			YD <sup>3</sup>	305748	\$ 3.00	\$ 917,200	
Borrow & Compaction Total:										\$ 3,974,700	
<b>2. Structures</b>											
Retaining Walls:											
	EB Off-Ramp (LT-Side)	9+00	20+40	1140		15	FT <sup>2</sup>	17100	\$ 50.00	\$ 855,000	
	EB Off-Ramp (RT- Side)	15+40	20+40	500		23	FT <sup>2</sup>	11500	\$ 50.00	\$ 575,000	
	EB Off-Ramp (LT-Side)	23+80	27+80	400		16	FT <sup>2</sup>	6400	\$ 50.00	\$ 320,000	
	EB Off-Ramp (LT-Side)	32+00	36+00	400		16	FT <sup>2</sup>	6400	\$ 50.00	\$ 320,000	
	EB Off-Ramp (LT-Side)	39+40	50+80	1140		15	FT <sup>2</sup>	17100	\$ 50.00	\$ 855,000	

Interchange Quantities

<b>QUANTITY CALC.</b>											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
	Sub Total									\$ 2,925,000	
	Bridges & Box Culverts:										
	EB Off-Ramp Bridge overpass I-84	20+40	23+80	340	30		FT <sup>2</sup>	10200	\$ 120.00	\$ 1,224,000	
	TenMile Rd Bridge overpass I-84	123+07	125+57	250	90		FT <sup>2</sup>	22500	\$ 120.00	\$ 2,700,000	
	EB On-Ramp Bridge overpass I-84	36+00	39+40	340	30		FT <sup>2</sup>	10200	\$ 120.00	\$ 1,224,000	
	Sub Total									\$ 5,148,000	
	<b>3. Pavement Surfacing &amp; Base</b>										
	EB (Off+On) Ramps (A-B & B-C) ACP CL.B	00+24	59+70	5946	30	0.5	T	6772	\$ 70.00	\$ 474,000	
	WB (On+Off) Ramps (D-A & C-D) ACP CL B	13+97	43+43	2946	30	0.5	T	3355	\$ 70.00	\$ 234,900	
	Driveway Relocation (ACP) Class II	0+00	15+00	1500	24	0.5	T	1367	\$ 70.00	\$ 95,700	
	TenMile Rd Asphalt Concrete Pavement (ACP) Class B	110+50	135+50	2500	72	0.5	T	6833	\$ 70.00	\$ 478,300	
	Sub Total									\$ 1,282,900	
	EB (Off+On) Ramps (A-B & B-C) CSBC	00+24	59+70	5946	40	0.75	YD <sup>3</sup>	6607	\$ 40.00	\$ 264,300	
	WB (On+Off) Ramps (D-A & C-D) CSBC	13+97	43+43	2946	40	0.75	YD <sup>3</sup>	3273	\$ 40.00	\$ 130,900	
	Driveway Relocation (CSBC)	0+00	15+00	1500	30	0.75	YD <sup>3</sup>	1250	\$ 40.00	\$ 50,000	
	TenMile Rd Crushed Surface Base Course (CSBC)	110+50	135+50	2500	90	0.75	YD <sup>3</sup>	6250	\$ 40.00	\$ 250,000	
	Sub Total									\$ 695,200	
	<b>4. Drainage &amp; Irrigation</b>										
	Drainage:										
	EB (Off+On) Ramps	00+24	59+70	5946	30		YD <sup>2</sup>	19820	\$ 10.00	\$ 198,200	
	WB (On+Off) Ramps	13+97	43+43	2946	30		YD <sup>2</sup>	9820	\$ 10.00	\$ 98,200	
	TenMile Rd	110+50	135+50	2500	72		YD <sup>2</sup>	20000	\$ 10.00	\$ 200,000	
	Sub Total									\$ 496,400	
	Irrigation:										
	EB (Off+On) Ramps	00+24	59+70	5946	30		YD <sup>2</sup>	19820	\$ 5.00	\$ 99,100	
	WB (On+Off) Ramps	13+97	43+43	2946	30		YD <sup>2</sup>	9820	\$ 5.00	\$ 49,100	

Interchange Quantities

<b>QUANTITY CALC.</b>											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
	TenMile Rd	110+50	135+50	2500	72		YD <sup>2</sup>	20000	\$ 5.00	\$ 100,000	
	Sub Total									\$ 248,200	
	<b>5. Roadside Development</b>										
	Seeding, Fertilizer, and Mulching EB (Off+On) Ramps	00+24	59+70	5946	46		ACRE	6.33	\$ 5,000.00	\$ 31,600	
	Seeding, Fertilizer, and Mulching WB (On+Off) Ramps	13+97	43+43	2946	37		ACRE	2.50	\$ 5,000.00	\$ 12,500	
	Seeding, Fertilizer, and Mulching TenMile Rd	110+50	135+50	2500	66		ACRE	3.78	\$ 5,000.00	\$ 18,900	
	Sub Total									\$ 63,000	
	Temporary Water and Pollution Control EB (Off+On) Rm	00+24	59+70	5946	86		ACRE	11.79	\$ 2,000.00	\$ 23,600	
	Temporary Water and Pollution Control WB (Off+On) Rm	13+97	43+43	2946	77		ACRE	5.20	\$ 2,000.00	\$ 10,400	
	Temporary Water and Pollution Control TenMile Rd	123+00	130+00	700	156		ACRE	2.51	\$ 2,000.00	\$ 5,000	
	Sub Total									\$ 39,000	
	Planting EB (Off+On) Ramps (A-B & B-C)	00+24	59+70	5946			ACRE	6.33	\$ 9,000.00	\$ 57,000	
	Planting WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946			ACRE	2.50	\$ 9,000.00	\$ 22,500	
	Planting TenMile Rd	110+50	135+50	2500			ACRE	3.78	\$ 9,000.00	\$ 34,000	
	Sub Total									\$ 113,500	
	<b>6. Traffic Services &amp; Safety</b>										
	Concrete Barrier	-	-	0			FT	0	\$ 40.00	\$ -	
	Sub Total									\$ -	
	TenMile Rd Cement Concrete Sidewalk	110+50	135+50	2500	15		YD <sup>2</sup>	4167	\$ 45.00	\$ 187,500	
	Sub Total									\$ 187,500	
	Signal TenMile Rd @ WB & EB (On+Off) Ramps	127+87	127+87				EACH		\$ 200,000.00	\$ 200,000	
	Sub Total									\$ 200,000	
	Illumination EB (Off+On) Ramps (A-B & B-C)	00+24	59+70	5946			EACH	30	\$ 5,000.00	\$ 148,700	
	Illumination WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946			EACH	15	\$ 5,000.00	\$ 73,700	

Interchange Quantities

<b>QUANTITY CALC.</b>											
Item No.	From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments	
Illumination TenMile Rd	110+50	135+50	2500			EACH	13	\$ 5,000.00	\$ 62,500		
Sub Total									\$ 284,900		
Signing EB (Off+On) Ramps (A-B & B-C)	00+24	59+70	5946			EACH	595	\$ 70.00	\$ 41,600		
Signing WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946			EACH	295	\$ 70.00	\$ 20,600		
Signing TenMile Rd	110+50	135+50	2500			EACH	250	\$ 70.00	\$ 17,500		
Sub Total									\$ 79,700		
Pavement Marking EB (Off+On) Ramps (A-B & B-C)	00+24	59+70	5946			FT	11892	\$ 1.00	\$ 11,900		
Pavement Marking WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946			FT	5892	\$ 1.00	\$ 5,900		
Pavement Marking TenMile Rd	110+50	135+50	2500			FT	20000	\$ 1.00	\$ 20,000		
Sub Total									\$ 37,800		
Signing & Striping Total									\$ 117,500		
Fencing WB (On+Off) Ramps (D-A & C-D)	13+97	43+43	2946			FT	2946	\$ 25.00	\$ 73,700		
Fencing TenMile Rd	110+50	135+50	2500			FT	0	\$ 25.00	\$ -		
Sub Total									\$ 73,700		
<b>7. Construction Traffic Control</b>											
Temporary Traffic Control EB (Off+On) Ramps	00+24	59+70	5946			FT	5946	\$ 40.00	\$ 237,800		
Temporary Traffic Control WB (On+Off) Ramps	13+97	43+43	2946			FT	2946	\$ 40.00	\$ 117,800		
Temporary Traffic Control TenMile Rd	110+50	135+50	2500			FT	2500	\$ 80.00	\$ 200,000		
Sub Total									\$ 555,600		
<b>8. Utilities</b>											
Utilities EB (Off+On) Ramps	00+24	59+70	5946			FT	5946	\$ 8.00	\$ 47,600		
Utilities WB (On+Off) Ramps	13+97	43+43	2946			FT	2946	\$ 8.00	\$ 23,600		
Utilities TenMile Rd	110+50	135+50	2500			FT	2500	\$ 24.00	\$ 60,000		
Sub Total									\$ 131,200		

APPENDIX F

COST ESTIMATE SUMMARY

ALTERNATIVE 6: SINGLE POINT URBAN INTERCHANGE

**TEN-MILE RD INTERCHANGE STUDY  
ALTERNATIVE-6 : SINGLE POINT URBAN INTERCHANGE  
COST ESTIMATE SUMMARY**

Date: 6/27/2005

	I-84 WIDEN (3-LANE) COST_ESTIMATE (add 1-12-foot lane & 10-ft shoulder)	MERIDIAN I/C EB LOOP ON-RAMP COST_ESTIMATE	NEW MERIDIAN I/C COST_ESTIMATE
INTERCHANGE	TEN-MILE RD		
COST_ESTIMATE *	COST_ESTIMATE *		

**I. RIGHT OF WAY**  
Year 2005 Market Value

	\$ 8,900,000	\$ 1,200,000	\$ 900,000	\$ -	\$ 1,600,000
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**II. CONSTRUCTION**

1. Grading (Earthwork)	\$ 2,731,000	\$ 225,000	\$ 473,000	\$ 176,000	\$ 2,464,000
2. Structures	\$ 13,275,000	\$ 288,000	\$ 336,000	\$ 200,000	\$ 2,900,000
3. Pavement Surfacing & Base	\$ 1,799,000	\$ 880,000	\$ 2,643,000	\$ 547,000	\$ 1,564,000
4. Drainage & Irrigation	\$ 715,000	\$ 362,000	\$ 1,000,000	\$ 255,000	\$ 687,000
5. Roadside Development	\$ 164,000	\$ 38,000	\$ 240,000	\$ 38,000	\$ 191,000
6. Traffic Services & Safety	\$ 978,000	\$ 321,000	\$ 1,160,000	\$ 217,000	\$ 824,000
7. Construction Traffic Control	\$ 532,300	\$ 120,800	\$ 800,000	\$ 254,800	\$ 599,200
8. Utilities	\$ 126,500	\$ 24,200	\$ 160,000	\$ 51,000	\$ 119,900
9. Mobilization	\$ 2,032,000	\$ 226,000	\$ 681,000	\$ 174,000	\$ 935,000
10. Contingencies & Miscellaneous	\$ 6,706,000	\$ 746,000	\$ 2,248,000	\$ 574,000	\$ 3,085,000
11. Construction Engineering	\$ 3,487,000	\$ 388,000	\$ 1,169,000	\$ 298,000	\$ 1,604,000
			Meridian Staged Construction add 40%		\$ 6,949,000

10. CONSTRUCTION TOTAL : \$ 32,600,000 \$ 3,700,000 \$ 11,000,000 \$ 3,000,000 \$ 22,200,000

III. PRELIMINARY ENGINEER & ENVIRN. \$ 4,900,000 \$ 600,000 \$ 1,700,000 \$ 500,000 \$ 2,400,000

IV. SUB-TOTAL ESTIMATED COST  
Lines I, II and III (2005 Dollars) \$ 46,400,000 \$ 5,500,000 \$ 13,600,000 \$ 3,500,000 \$ 26,200,000

V. TOTAL ESTIMATED COST - Columns I, II, III and IV (2005 Dollars) \$ 95,000,000

\* Ten Mile Rd from south of I-84 to 1000' north of I-84 WB Ramp intersection is included with Interchange cost estimate.  
File: TenMile-Alt-517.xls  
Sheet: Alt-5 Cost Estimate Summary

**TEN-MILE ROAD INTERCHANGE STUDY  
ALTERNATIVE-6 : SINGLE POINT URBAN INTERCHANGE  
INTERCHANGE COST ESTIMATE**

Date: 6/23/2005

I. RIGHT OF WAY		Rounded
1. Year 2005 Assessment	\$ 6,225,800	
2. Relocation and Miscellaneous Year 2005 Market Value	\$ 1,119,100	
	120 % of lines 1+2	
	\$ 8,814,000	\$ 8,900,000
		<b>Totals</b>

II. CONSTRUCTION				
1. Grading (Earthwork)				
Clear & Grub, Demolition	\$	113,500		
Roadway Excavation	\$	93,400		
Borrow & Compaction	\$	2,523,900		
			\$	2,731,000
2. Structures				
Bridges & Box Culverts	\$	9,000,000		
Retaining Walls	\$	4,275,000		
			\$	13,275,000
3. Pavement Surfacing & Base				
Paving Type:	ACP C.L.B	\$	1,166,100	
Base Type:	CSBC	\$	632,500	
			\$	1,799,000
4. Drainage & Irrigation				
Drainage	\$	476,900		
Irrigation	\$	238,500		
			\$	715,000
5. Roadside Development				
Seeding, Fertilizer, and Mulching	\$	47,200		
Temp. Water & Pollution Control	\$	31,600		
Planting	\$	85,000		
			\$	164,000
6. Traffic Services & Safety				
Concrete sidewalk	\$	187,500		
Signals	\$	200,000		
Illumination	\$	270,200		
Signing & Striping	\$	112,200		
Fencing	\$	207,700		
			\$	978,000
7. Construction Traffic Control				
			\$	532,300
8. Utilities				
			\$	126,500
9. Mobilization				
			\$	2,032,000
10. Contingencies & Miscellaneous				
			\$	6,706,000
11. Construction Engineering				
			\$	3,487,000
12. CONSTRUCTION TOTAL :				
	Lines 1 to 11	\$	32,546,000	\$ 32,600,000
III. PRELIMINARY ENGINEERING & ENVIRONMENTAL				
	15% of Line 12	\$	4,882,000	\$ 4,900,000
IV. TOTAL ESTIMATED COST Lines I, II and III (2005 Dollars)				
		\$	46,240,000	\$ 46,400,000

Interchange Right of Way

<b>RIGHT OF WAY CALC. (Ada County Assessor Records):</b>															
Parcel No.	Address	Zone Code	State Category_Code	From STA	To STA	Side LT RT	Length (FT)	Width (FT)	Area Take (FT <sup>2</sup> )	Land Assess / (FT <sup>2</sup> )	Land Cost/ (FT <sup>2</sup> )	Structure	Total Assess	Relocation & Miscel.	Comments
S1222110046	1751 S. Ten Mile Rd, Meridian, ID 83642	R1	120-Residential Tract	110+27	112+45	LT	218	35	7630	\$ 0.90	\$ 5.00		\$ 38,200		
S1223223300	1620 S. Ten Mile Rd, Meridian, ID 83642	RUT	120-Residential Tract	110+27	112+20	RT	193	35	6755	\$ 1.24	\$ 5.00		\$ 33,800		
R1389330090	1581 S. Ten Mile Rd, Meridian, ID 83642	R1	150-Res Sub Lot	112+45	114+98	LT	253	180.44	45651	\$ 1.31	\$ 5.00	\$ 99,800	\$ 328,100	\$ 164,050	Full Take
S1214336310	1520 S. Ten Mile Rd, Meridian, ID 83642	RUT	120-Residential Tract	112+71	115+12	RT	241	361.49	87119	\$ 1.09	\$ 5.00	\$ 94,500	\$ 530,100	\$ 265,050	Full Take
R1389330100	1505 S. Ten Mile Rd, Meridian, ID 83642	R1	150-Res Sub Lot	114+98	116+40	LT	142	35	4970	\$ 1.17	\$ 5.00		\$ 24,900		
S1214336305	S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	115+12	119+83	RT	471	40	18840	\$ 0.23	\$ 5.00		\$ 94,200		
S1214336305	S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	119+83	123+35	RT	352	450	158400	\$ 0.23	\$ 5.00		\$ 792,000		
S1215449600	1485 S. Ten Mile Rd, Meridian, ID 83642	R1	120-Residential Tract	116+93	119+24	LT	231	188.57	43560	\$ 1.15	\$ 5.00	\$107,500	\$ 325,300	\$ 162,650	Full Take
R1389330005	1382 N. Tasa PL, Meridian, ID 83642	R1	150-Res Sub Lot	119+24	120+67	LT	143	236.38	33802	\$ 1.33	\$ 5.00	\$ 91,900	\$ 260,900	\$ 130,450	Full Take
R1389330010	1356 N. Tasa PL, Meridian, ID 83642	R1	150-Res Sub Lot	120+67	123+32	LT	265	60	15900	\$ 1.33	\$ 5.00		\$ 79,500		
R1389330020	1320 N. Tasa PL, Meridian, ID 83642	R1	150-Res Sub Lot	122+72	123+32	LT	60	70	4200	\$ 1.15	\$ 5.00		\$ 21,000		
R1389330030	1357 N. Tasa PL, Meridian, ID 83642	R1	150-Res Sub Lot	121+30	123+32	LT	202	203.78	41164	\$ 1.21	\$ 5.00	\$105,200	\$ 311,000	\$ 155,500	Full Take
R1389330050	3380 W. Tasa DR, Meridian, ID 83642	R1	150-Res Sub Lot	122+11	123+32	LT	121	124	15004	\$ 1.25	\$ 5.00		\$ 75,000		
R1389330060	3428 W. Tasa DR, Meridian, ID 83642	R1	150-Res Sub Lot	122+90	123+30	LT	40	50	2000	\$ 1.20	\$ 5.00		\$ 10,000		
R1389330070	3450 W. Tasa DR, Meridian, ID 83642	R1	150-Res Sub Lot	122+90	123+30	LT	40	163	6520	\$ 1.42	\$ 5.00		\$ 32,600		
R1389330080	3450 W. Tasa DR, Meridian, ID 83642	R1	150-Res Sub Lot	122+90	123+10	LT	20	280	5600	\$ 1.02	\$ 5.00		\$ 28,000		
S1215438450	W. Tasa DR, Meridian, ID 83642	R1	10-Irrigated Ag	122+10	123+10	LT	100	450	45000	\$ 0.01	\$ 5.00		\$ 225,000		
S1214336305	S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	122+30	123+30	RT	100	2200	220000	\$ 0.23	\$ 5.00		\$ 1,100,000		
S1215417500	1155 S. Ten Mile Rd, Meridian, ID 83642	RUT	120-Residential Tract	125+32	129+07	LT	375	232.32	87120	\$ 0.80	\$ 5.00	\$ 47,200	\$ 482,800	\$ 241,400	Full Take
S1215417262	S. Ten Mile Rd, Meridian, ID 83642	RUT	10-Irrigated Ag	125+32	129+07	LT	375	150	56250	\$ 0.03	\$ 5.00		\$ 281,300		
S1214325410	980 S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	125+33	128+83	RT	350	200	70000	\$ 1.09	\$ 5.00		\$ 350,000		
S1214325500	S. Ten Mile Rd, Meridian, ID 83642	RUT	10-Irrigated Ag	125+33	128+83	RT	350	313	109550	\$ 0.02	\$ 5.00		\$ 547,800		
S1214325410	980 S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	128+83	137+38	RT	855	30	25650	\$ 1.09	\$ 5.00		\$ 128,300		
S1215417262	S. Ten Mile Rd, Meridian, ID 83642	RUT	10-Irrigated Ag	129+07	136+27	LT	720	35	25200	\$ 0.03	\$ 5.00		\$ 126,000		
<b>Total (24)</b>									1135885	\$ 5.00		\$546,100	\$ 6,225,800	\$ 1,119,100	(6) Full Take

Interchange Quantities

QUANTITY CALC.											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
<b>1. Grading (Earthwork)</b>											
Clear & Grub, Demolition:											
	EB (Off+On) Ramps (A-B & B-C)	9+21	50+79	4158	71		ACRE	6.74	\$ 5,000.00	\$ 33,700	
	WB (On+Off) Ramps (D-A & C-D)	9+30	50+79	4149	69		ACRE	6.56	\$ 5,000.00	\$ 32,800	
	Driveway Relocation	0+00	4+00	400	50		ACRE	0.46	\$ 5,000.00	\$ 2,300	
	TenMile Rd	110+50	135+50	2500	156		ACRE	8.95	\$ 5,000.00	\$ 44,700	
	Sub Total							22.71		\$ 113,500	
Roadway Excavation incl. Haul:											
	EB (Off+On) Ramps (A-B & B-C)	9+21	50+79	4158			YD <sup>3</sup>	3922	\$ 5.00	\$ 19,600	
	WB (On+Off) Ramps (D-A & C-D)	9+30	50+79	4149			YD <sup>3</sup>	5464	\$ 5.00	\$ 27,300	
	TenMile Rd	110+50	135+50	2500			YD <sup>3</sup>	9307	\$ 5.00	\$ 46,500	
	Sub Total							18693		\$ 93,400	
Borrow:											
	EB (Off+On) Ramps (A-B & B-C)	9+21	50+79	4158			YD <sup>3</sup>	80102	\$ 10.00	\$ 801,000	
	WB (On+Off) Ramps (D-A & C-D)	9+30	50+79	4149			YD <sup>3</sup>	62905	\$ 10.00	\$ 629,100	
	Driveway Relocation	0+00	4+00	400	24		YD <sup>3</sup>	6720	\$ 10.00	\$ 67,200	
	TenMile Rd	110+50	135+50	2500			YD <sup>3</sup>	44419	\$ 10.00	\$ 444,200	
	Sub Total			11207				194146		\$ 1,941,500	
Embankment Compaction:											
	Sub Total	00+00	00+00	11207			YD <sup>3</sup>	194146	\$ 3.00	\$ 582,400	
Borrow & Compaction Total:										\$ 2,523,900	
<b>2. Structures</b>											
Retaining Walls:											
	WB On-Ramp (RT-Side)	13+00	27+00	1400		15	FT <sup>2</sup>	21000	\$ 50.00	\$ 1,050,000	
	WB Off-Ramp (RT-Side)	32+00	45+00	1300		15	FT <sup>2</sup>	19500	\$ 50.00	\$ 975,000	
	EB Off-Ramp (LT-Side)	16+00	27+00	1100		15	FT <sup>2</sup>	16500	\$ 50.00	\$ 825,000	
	EB On-Ramp (LT-Side)	32+00	45+00	1300		15	FT <sup>2</sup>	19500	\$ 50.00	\$ 975,000	
	EB Off-Ramp (RT-Side)	22+80	27+80	500		18	FT <sup>2</sup>	9000	\$ 50.00	\$ 450,000	

Interchange Quantities

QUANTITY CALC.											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
	Sub Total									\$ 4,275,000	
	Bridges & Box Culverts:										
	TenMile Rd Bridge overpass I-84	123+07	125+57	250	300		FT <sup>2</sup>	75000	\$ 120.00	\$ 9,000,000	
	Sub Total									\$ 9,000,000	
	<b>3. Pavement Surfacing &amp; Base</b>										
	EB (Off+On) Ramps (A-B & B-C) ACP CL.B	9+21	50+79	4158	30	0.5	T	4736	\$ 70.00	\$ 331,500	
	WB (On+Off) Ramps (D-A & C-D) ACP CL B	9+30	50+79	4149	30	0.5	T	4725	\$ 70.00	\$ 330,800	
	Driveway Relocation (ACP) Class II	0+00	4+00	400	24	0.5	T	364	\$ 70.00	\$ 25,500	
	TenMile Rd Asphalt Concrete Pavement (ACP) Class B	110+50	135+50	2500	72	0.5	T	6833	\$ 70.00	\$ 478,300	
	Sub Total									\$ 1,166,100	
	EB (Off+On) Ramps (A-B & B-C) CSBC	9+21	50+79	4158	40	0.75	YD <sup>3</sup>	4620	\$ 40.00	\$ 184,800	
	WB (On+Off) Ramps (D-A & C-D) CSBC	9+30	50+79	4149	40	0.75	YD <sup>3</sup>	4610	\$ 40.00	\$ 184,400	
	Driveway Relocation (CSBC)	0+00	4+00	400	30	0.75	YD <sup>3</sup>	333	\$ 40.00	\$ 13,300	
	TenMile Rd Crushed Surface Base Course (CSBC)	110+50	135+50	2500	90	0.75	YD <sup>3</sup>	6250	\$ 40.00	\$ 250,000	
	Sub Total									\$ 632,500	
	<b>4. Drainage &amp; Irrigation</b>										
	Drainage:										
	EB (Off+On) Ramps	9+21	50+79	4158	30		YD <sup>2</sup>	13860	\$ 10.00	\$ 138,600	
	WB (On+Off) Ramps	9+30	50+79	4149	30		YD <sup>2</sup>	13830	\$ 10.00	\$ 138,300	
	TenMile Rd	110+50	135+50	2500	72		YD <sup>2</sup>	20000	\$ 10.00	\$ 200,000	
	Sub Total									\$ 476,900	
	Irrigation:										
	EB (Off+On) Ramps	9+21	50+79	4158	30		YD <sup>2</sup>	13860	\$ 5.00	\$ 69,300	
	WB (On+Off) Ramps	9+30	50+79	4149	30		YD <sup>2</sup>	13830	\$ 5.00	\$ 69,200	
	TenMile Rd	110+50	135+50	2500	72		YD <sup>2</sup>	20000	\$ 5.00	\$ 100,000	
	Sub Total									\$ 238,500	

Interchange Quantities

QUANTITY CALC.										
Item No.	From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
<b>5. Roadside Development</b>										
Seeding, Fertilizer, and Mulching EB (Off+On) Ramps	9+21	50+79	4158	31		ACRE	2.92	\$ 5,000.00	\$ 14,600	
Seeding, Fertilizer, and Mulching WB (On+Off) Ramps	9+30	50+79	4149	29		ACRE	2.75	\$ 5,000.00	\$ 13,700	
Seeding, Fertilizer, and Mulching TenMile Rd	110+50	135+50	2500	66		ACRE	3.78	\$ 5,000.00	\$ 18,900	
Sub Total									\$ 47,200	
Temporary Water and Pollution Control EB (Off+On) Rm	9+21	50+79	4158	71		ACRE	6.74	\$ 2,000.00	\$ 13,500	
Temporary Water and Pollution Control WB (Off+On) Rm	9+30	50+79	4149	69		ACRE	6.56	\$ 2,000.00	\$ 13,100	
Temporary Water and Pollution Control TenMile Rd	123+00	130+00	700	156		ACRE	2.51	\$ 2,000.00	\$ 5,000	
Sub Total									\$ 31,600	
Planting EB (Off+On) Ramps (A-B & B-C)	9+21	50+79	4158			ACRE	2.92	\$ 9,000.00	\$ 26,300	
Planting WB (On+Off) Ramps (D-A & C-D)	9+30	50+79	4149			ACRE	2.75	\$ 9,000.00	\$ 24,700	
Planting TenMile Rd	110+50	135+50	2500			ACRE	3.78	\$ 9,000.00	\$ 34,000	
Sub Total									\$ 85,000	
<b>6. Traffic Services &amp; Safety</b>										
Concrete Barrier	-	-	0			FT	0	\$ 40.00	\$ -	
Sub Total									\$ -	
TenMile Rd Cement Concrete Sidewalk	110+50	135+50	2500	15		YD <sup>2</sup>	4167	\$ 45.00	\$ 187,500	
Sub Total									\$ 187,500	
Signal TenMile Rd @ WB & EB (On+Off) Ramps	127+87	127+87				EACH		\$ 200,000.00	\$ 200,000	
Sub Total									\$ 200,000	
Illumination EB (Off+On) Ramps (A-B & B-C)	9+21	50+79	4158			EACH	21	\$ 5,000.00	\$ 104,000	
Illumination WB (On+Off) Ramps (D-A & C-D)	9+30	50+79	4149			EACH	21	\$ 5,000.00	\$ 103,700	
Illumination TenMile Rd	110+50	135+50	2500			EACH	13	\$ 5,000.00	\$ 62,500	
Sub Total									\$ 270,200	

Interchange Quantities

<b>QUANTITY CALC.</b>											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
	Signing EB (Off+On) Ramps (A-B & B-C)	9+21	50+79	4158			EACH	416	\$ 70.00	\$ 29,100	
	Signing WB (On+Off) Ramps (D-A & C-D)	9+30	50+79	4149			EACH	415	\$ 70.00	\$ 29,000	
	Signing TenMile Rd	110+50	135+50	2500			EACH	250	\$ 70.00	\$ 17,500	
	Sub Total									\$ 75,600	
	Pavement Marking EB (Off+On) Ramps (A-B & B-C)	9+21	50+79	4158			FT	8316	\$ 1.00	\$ 8,300	
	Pavement Marking WB (On+Off) Ramps (D-A & C-D)	9+30	50+79	4149			FT	8298	\$ 1.00	\$ 8,300	
	Pavement Marking TenMile Rd	110+50	135+50	2500			FT	20000	\$ 1.00	\$ 20,000	
	Sub Total									\$ 36,600	
	Signing & Striping Total									\$ 112,200	
	Fencing EB (Off+On) Ramps (A-B & B-C)	9+21	50+79	4158			FT	4158	\$ 25.00	\$ 104,000	
	Fencing WB (On+Off) Ramps (D-A & C-D)	9+30	50+79	4149			FT	4149	\$ 25.00	\$ 103,700	
	Fencing TenMile Rd	110+50	135+50	2500			FT	0	\$ 25.00	\$ -	
	Sub Total									\$ 207,700	
	<b>7. Construction Traffic Control</b>										
	Temporary Traffic Control EB (Off+On) Ramps	9+21	50+79	4158			FT	4158	\$ 40.00	\$ 166,300	
	Temporary Traffic Control WB (On+Off) Ramps	9+30	50+79	4149			FT	4149	\$ 40.00	\$ 166,000	
	Temporary Traffic Control TenMile Rd	110+50	135+50	2500			FT	2500	\$ 80.00	\$ 200,000	
	Sub Total									\$ 532,300	
	<b>8. Utilities</b>										
	Utilities EB (Off+On) Ramps	9+21	50+79	4158			FT	4158	\$ 8.00	\$ 33,300	
	Utilities WB (On+Off) Ramps	9+30	50+79	4149			FT	4149	\$ 8.00	\$ 33,200	
	Utilities TenMile Rd	110+50	135+50	2500			FT	2500	\$ 24.00	\$ 60,000	
	Sub Total									\$ 126,500	

APPENDIX G

COST ESTIMATE SUMMARY

TEN MILE ROAD: I-84 TO FRANKLIN ROAD

**TEN-MILE ROAD INTERCHANGE STUDY  
ALTERNATIVES-1, 3, 4, 5 & 6 CONFIGURATIONS  
TEN MILE RD COST ESTIMATE**

Date: 6/23/2005

I. RIGHT OF WAY		Rounded
1. Year 2005 Assessment	\$ 998,500	
2. Relocation and Miscellaneous	\$ -	
Year 2005 Market Value	120 % of lines 1+2	\$ 1,198,000
		<b>Totals</b>
		<b>\$ 1,200,000</b>
II. CONSTRUCTION		
1. Grading (Earthwork)		
Clear & Grub, Demolition	\$ 39,100	
Roadway Excavation	\$ 20,300	
Borrow & Compaction	\$ 165,400	
		\$ 225,000
2. Structures		
Bridges & Box Culverts	\$ 288,000	
Retaining Walls	\$ -	
		\$ 288,000
3. Pavement Surfacing & Base		
Paving Type: ACP C.L.II	\$ 577,800	
Base Type: CSBC	\$ 302,000	
		\$ 880,000
4. Drainage & Irrigation		
Drainage	\$ 241,600	
Irrigation	\$ 120,800	
		\$362,000
5. Roadside Development		
Seeding, Fertilizer, and Mulching	\$ 7,900	
Temp. Water & Pollution Control	\$ 15,600	
Planting	\$ 14,200	
		\$ 38,000
6. Traffic Services & Safety		
Concrete sidewalk	\$ 226,500	
Signals	\$ 200,000	
Illumination	\$ 75,500	
Signaling & Striping	\$ 45,300	
Fencing	\$ -	
		\$ 321,000
7. Construction Traffic Control		
		\$ 120,800
8. Utilities		
		\$ 24,200
9. Mobilization		
	10% of Lines 1 to 8	\$ 226,000
10. Contingencies & Miscellaneous		
	30% of Lines 1 to 9	\$ 746,000
11. Construction Engineering		
	12% of Lines 1 to 10	\$ 388,000
12. CONSTRUCTION TOTAL :		
	Lines 1 to 11	\$ 3,619,000
		\$ 3,700,000
III. PRELIMINARY ENGINEERING & ENVIRONMENTAL		
	15% of Line 12	\$ 543,000
		\$ 600,000
IV. TOTAL ESTIMATED COST Lines I, II and III (2005 Dollars)		
		\$ 5,360,000
		\$ 5,500,000

TenMile Rd Right of Way

Ten Mile Rd RIGHT OF WAY CALC. (Ada County Assessor Records):															
Parcel No.	Address	Zone Code	State Category_Code	From STA	To STA	Side LT RT	Length (FT)	Width (FT)	Area Take (FT <sup>2</sup> )	Land Assess / (FT <sup>2</sup> )	Land Cost/ (FT <sup>2</sup> )	Structure	Total Assess	Relocation & Miscel.	Comments
S1215417210	785 S. Ten Mile Rd, Meridian, ID 83642	RUT	120-Residential Tract	136+27	139+03	LT	276	35	9660	\$ 0.46	\$ 5.00		\$ 48,300		
S1214325500	S. Ten Mile Rd, Meridian, ID 83642	RUT	10-Irrigated Ag	137+37	138+87	RT	150	35	5250	\$ 0.02	\$ 5.00		\$ 26,300		
S1214314806	980 S. Ten Mile Rd, Meridian, ID 83642	RUT	10-Irrigated Ag	138+87	139+04	RT	17	35	595	\$ 0.03	\$ 5.00		\$ 3,000		
S1215131760	625 S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	139+03	152+28	LT	1325	35	46375	\$ 1.61	\$ 5.00		\$ 231,900		
S1214233652	W. Franklin Rd, Meridian, ID 83642	RUT	10-Irrigated Ag	139+04	152+24	RT	1320	35	46200	\$ 0.03	\$ 5.00		\$ 231,000		
S1215110050	75 S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	152+28	165+37	LT	1309	35	45815	\$ 1.61	\$ 5.00		\$ 229,100		
S1214223565	W. Franklin Rd, Meridian, ID 83642	RUT	10-Irrigated Ag	152+24	152+51	RT	27	35	945	\$ 0.03	\$ 5.00		\$ 4,700		
S1214223305	270 S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	152+51	156+37	RT	386	35	13510	\$ 1.61	\$ 5.00		\$ 67,600		
S1214223245	W. Franklin Rd, Meridian, ID 83642	RUT	10-Irrigated Ag	156+37	159+77	RT	340	35	11900	\$ 0.02	\$ 5.00		\$ 59,500		
S1214223106	2905 W. Franklin Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	159+77	165+32	RT	555	35	19425	\$ 1.09	\$ 5.00		\$ 97,100		
Total (10)							5705		199675	\$ 5.00		\$ -	\$ 998,500	\$ -	(0)Full Take

TenMile Rd Quantities

<b>QUANTITY CALC.</b>											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
<b>1. Grading (Earthwork)</b>											
Clear & Grub, Demolition:											
	TenMile Rd	135+50	165+70	3020	113		ACRE	7.81	\$ 5,000.00	\$ 39,100	
	Sub Total							7.81		\$ 39,100	
Roadway Excavation incl. Haul:											
	TenMile Rd	135+50	165+70	3020			YD <sup>3</sup>	4058	\$ 5.00	\$ 20,300	
	Sub Total							4058		\$ 20,300	
Borrow:											
	TenMile Rd	135+50	165+70	3020			YD <sup>3</sup>	12724	\$ 10.00	\$ 127,200	
	Sub Total			3020				12724		\$ 127,200	
Embankment Compaction:											
	Sub Total	00+00	00+00	3020			YD <sup>3</sup>	12724	\$ 3.00	\$ 38,200	
	Borrow & Compaction Total:									\$ 165,400	
<b>2. Structures</b>											
Retaining Walls:											
	-----	-	-	0		0	FT <sup>2</sup>	0	\$ 50.00	\$ -	
	Sub Total									\$ -	
Bridges & Box Culverts:											
	TenMile Rd Box Culvert	138+78	138+92	24	90		FT <sup>2</sup>	2160	\$ 80.00	\$ 172,800	
	TenMile Rd Box Culvert	152+27	152+43	16	90		FT <sup>2</sup>	1440	\$ 80.00	\$ 115,200	
	Sub Total									\$ 288,000	
<b>3. Pavement Surfacing &amp; Base</b>											
	TenMile Rd Asphalt Concrete Pavement (ACP) Class II	135+50	165+70	3020	72	0.5	T	8255	\$ 70.00	\$ 577,800	
	Sub Total									\$ 577,800	

TenMile Rd Quantities

<b>QUANTITY CALC.</b>											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
	TenMile Rd Crushed Surface Base Course (CSBC)	135+50	165+70	3020	90	0.75	YD <sup>3</sup>	7550	\$ 40.00	\$ 302,000	
	Sub Total									\$ 302,000	
<b>4. Drainage &amp; Irrigation</b>											
	Drainage:										
	TenMile Rd	135+50	165+70	3020	72		YD <sup>2</sup>	24160	\$ 10.00	\$ 241,600	
	Sub Total									\$ 241,600	
	Irrigation:										
	TenMile Rd	135+50	165+70	3020	72		YD <sup>2</sup>	24160	\$ 5.00	\$ 120,800	
	Irrigation									\$ 120,800	
<b>5. Roadside Development</b>											
	Seeding, Fertilizer, and Mulching TenMile Rd	135+50	165+70	3020	23		ACRE	1.58	\$ 5,000.00	\$ 7,900	
	Sub Total									\$ 7,900	
	Temporary Water and Pollution Control TenMile Rd	135+50	165+70	3020	113		ACRE	7.81	\$ 2,000.00	\$ 15,600	
	Sub Total									\$ 15,600	
	Planting TenMile Rd	135+50	165+70	3020			ACRE	1.58	\$ 9,000.00	\$ 14,200	
	Sub Total									\$ 14,200	
<b>6. Traffic Services &amp; Safety</b>											
	Concrete Barrier	-	-	0			FT	0	\$ 40.00	\$ -	
	Sub Total									\$ -	
	TenMile Rd Cement Concrete Sidewalk	135+50	165+70	3020	15		YD <sup>2</sup>	5033	\$ 45.00	\$ 226,500	
	Sub Total									\$ 226,500	

TenMile Rd Quantities

<b>QUANTITY CALC.</b>											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
	Signal TenMile Rd @ Franklin Rd	165+70	165+70				EACH		\$ 200,000.00	\$ 200,000	
	Sub Total									\$ 200,000	
	Illumination TenMile Rd	135+50	165+70	3020			EACH	15	\$ 5,000.00	\$ 75,500	
	Sub Total									\$ 75,500	
	Signing TenMile Rd	135+50	165+70	3020			EACH	302	\$ 70.00	\$ 21,100	
	Sub Total									\$ 21,100	
	Pavement Marking TenMile Rd	135+50	165+70	3020			FT	24160	\$ 1.00	\$ 24,200	
	Sub Total									\$ 24,200	
	Signing and Striping Total									\$ 45,300	
	Fencing								\$ 25.00	\$ -	
	<b>7. Construction Traffic Control</b>										
	Temporary Traffic Control TenMile Rd	135+50	165+70	3020			FT	3020	\$ 40.00	\$ 120,800	
	Sub Total									\$ 120,800	
	<b>8. Utilities</b>										
	Utilities TenMile Rd	135+50	165+70	3020			FT	3020	\$ 8.00	\$ 24,200	
	Sub Total									\$ 24,200	

**TEN-MILE RD INTERCHANGE STUDY  
ALTERNATIVE-2 : OFFSET DIAMOND  
COST ESTIMATE SUMMARY**

Date: 6/23/2005

INTERCHANGE COST_ESTIMATE*	TEN-MILE RD COST_ESTIMATE*	I-84 WIDEN (3-LANE) COST_ESTIMATE (add 1-12-foot lane & 10-ft shoulder)	MERIDIAN I/C EB LOOP ON-RAMP COST_ESTIMATE	NEW MERIDIAN I/C COST_ESTIMATE
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<b>I. RIGHT OF WAY</b>				
Year 2005 Market Value	\$ 15,200,000	\$ 1,200,000	\$ 900,000	\$ -
				<b>1,600,000</b>

<b>II. CONSTRUCTION</b>				
1. Grading (Earthwork)	\$ 12,601,000	\$ 216,000	\$ 473,000	\$ 176,000
2. Structures	\$ 3,737,000	\$ 115,000	\$ 336,000	\$ 200,000
3. Pavement Surfacing & Base	\$ 2,078,000	\$ 778,000	\$ 2,643,000	\$ 547,000
4. Drainage & Irrigation	\$ 849,000	\$ 320,000	\$ 1,000,000	\$ 255,000
5. Roadside Development	\$ 449,000	\$ 34,000	\$ 240,000	\$ 38,000
6. Traffic Services & Safety	\$ 1,284,000	\$ 307,000	\$ 1,160,000	\$ 217,000
7. Construction Traffic Control	\$ 608,400	\$ 106,800	\$ 800,000	\$ 254,800
8. Utilities	\$ 156,800	\$ 21,400	\$ 160,000	\$ 51,000
9. Mobilization	\$ 2,176,000	\$ 190,000	\$ 681,000	\$ 174,000
10. Contingencies & Miscellaneous	\$ 7,182,000	\$ 626,000	\$ 2,248,000	\$ 574,000
11. Construction Engineering	\$ 3,735,000	\$ 325,000	\$ 1,169,000	\$ 298,000
		Meridian Staged Construction add 40%		\$ 6,888,000
<b>10. CONSTRUCTION TOTAL :</b>	<b>\$ 34,900,000</b>	<b>\$ 3,100,000</b>	<b>\$ 11,000,000</b>	<b>\$ 3,000,000</b>

<b>III. PRELIMINARY ENGINEER &amp; ENVIRN.</b>				
	\$ 5,300,000	\$ 500,000	\$ 1,700,000	\$ 500,000
				<b>2,400,000</b>

<b>IV. SUB-TOTAL ESTIMATED COST</b>				
Lines I, II and III (2005 Dollars)	\$ 55,400,000	\$ 4,800,000	\$ 13,600,000	\$ 3,500,000
				<b>26,200,000</b>

<b>V. TOTAL ESTIMATED COST - Columns I, II, III and IV (2005 Dollars)</b>				
				<b>\$ 104,000,000</b>

\* Ten Mile Rd from south of I-84 to 600' north of I-84 WB Ramp Intersection is included with Interchange cost estimate.  
File: TenMile-Alt-2.xls  
Sheet: Alt-2 Cost Estimate Summary

**TEN-MILE ROAD INTERCHANGE STUDY  
ALTERNATIVE-2 : OFFSET DIAMOND  
INTERCHANGE COST ESTIMATE**

Date: 6/21/2005

**I. RIGHT OF WAY**

1. Year 2005 Assessment	\$ 12,076,100	<b>Rounded</b>
2. Relocation and Miscellaneous	\$ 533,300	<b>Totals</b>
Year 2005 Market Value	120 % of lines 1+2	<b>\$ 15,131,000 \$ 15,200,000</b>

**II. CONSTRUCTION**

1. Grading (Earthwork)		
Clear & Grub, Demolition	\$ 205,800	
Roadway Excavation	\$ 51,100	
Embankment Compaction	\$ 12,343,800	
		\$ 12,601,000
2. Structures		
Bridges & Box Culverts	\$ 3,736,800	
Retaining Walls	\$ -	
		\$ 3,737,000
3. Pavement Surfacing & Base		
Paving Type: ACP CLB	\$ 1,353,100	
Base Type: CSBC	\$ 725,000	
		\$ 2,078,000
4. Drainage & Irrigation		
Drainage	\$565,800	
Irrigation	\$282,800	
		\$649,000
5. Roadside Development		
Seeding, Fertilizer, and Mulching	\$ 130,900	
Temp. Water & Pollution Control	\$ 82,200	
Planting	\$ 235,400	
		\$ 449,000
6. Traffic Services & Safety		
Concrete sidewalk	\$ 330,000	
Signals	\$ 400,000	
Illumination	\$ 270,400	
Signing & Striping	\$ 123,600	
Fencing	\$ 160,400	
		\$ 1,284,000
7. Construction Traffic Control		
		\$ 608,400
8. Utilities		
		\$ 156,800
9. Mobilization		
10% of Lines 1 to 8	\$ 2,176,000	
10. Contingencies & Miscellaneous		
30% of Lines 1 to 9	\$ 7,182,000	
11. Construction Engineering		
12% of Lines 1 to 10	\$ 3,735,000	
12. CONSTRUCTION TOTAL :	Lines 1 to 11	\$ 34,856,000 \$ 34,900,000

**III. PRELIMINARY ENGINEERING & ENVIRONMENTAL**

	15% of Line 12	
		\$ 5,228,000 \$ 5,300,000

**IV. TOTAL ESTIMATED COST Lines I, II and III (2005 Dollars) \$ 55,220,000 \$ 55,400,000**

Interchange Right of Way

RIGHT OF WAY CALC. (Ada County Assessor Records):															
Parcel No.	Address	Zone Code	State Category_Code	From STA	To STA	Side LT RT	Length (FT)	Width (FT)	Area Take (FT <sup>2</sup> )	Land Assess / (ET <sup>2</sup> )	Land Cost / (ET <sup>2</sup> )	Structure	Total Assess	Relocation & Miscel.	Comments
S1223223500	2010 S. Ten Mile Rd, Meridian, ID 83642	RUT	120-Residential Tract	098+00	103+38	T&R	538	250	134500	\$ 0.75	\$ 5.00		\$ 672,500		
S1223223120	3045 W. Overland Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	103+38	103+62	T&R	24	310	7440	\$ 0.13	\$ 5.00		\$ 37,200		
S1223223382	1620 S. Ten Mile Rd, Meridian, ID 83642	RUT	120-Residential Tract	103+62	106+40	T&R	278	330	91740	\$ 0.13	\$ 5.00		\$ 458,700		
S1223223120	3045 W. Overland Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	106+40	116+10	T&R	970	200	194000	\$ 0.13	\$ 5.00		\$ 970,000		
S1214336305	S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	116+10	122+00	T&R	590	300	177000	\$ 0.23	\$ 5.00		\$ 885,000		
S1214336305	S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	122+00	127+20	T&R	520	1300	676000	\$ 0.23	\$ 5.00		\$ 3,380,000		
S1214346700	W. Overland Rd, Meridian, ID 83642	RUT	180-Other Rural Land	127+20	127+50	RT	30	300	9000	\$ 0.69	\$ 5.00		\$ 45,000		
R1389330010	1356 N. Tasa PL, Meridian, ID 83642	R1	150-Res Sub Lot	127+87	129+63	LT	176	85	14960	\$ 1.33	\$ 5.00		\$ 74,800		
R1389330020	1320 N. Tasa PL, Meridian, ID 83642	R1	150-Res Sub Lot	129+08	129+63	LT	55	200	11000	\$ 1.15	\$ 5.00		\$ 55,000		
R1389330030	1357 N. Tasa PL, Meridian, ID 83642	R1	150-Res Sub Lot	129+63	129+90	LT	27	125	3375	\$ 1.21	\$ 5.00		\$ 16,900		
R1389330050	3380 W. Tasa DR, Meridian, ID 83642	R1	150-Res Sub Lot	129+90	130+00	LT	10	140	1400	\$ 1.25	\$ 5.00		\$ 7,000		
R1389330060	3428 W. Tasa DR, Meridian, ID 83642	R1	150-Res Sub Lot	130+00	130+10	LT	10	190	1900	\$ 1.20	\$ 5.00		\$ 9,500		
S1215417500	1155 S. Ten Mile Rd, Meridian, ID 83642	RUT	120-Residential Tract	131+17	134+92	LT	375	232.32	87120	\$ 0.80	\$ 5.00	\$ 47,200	\$ 482,800	\$ 241,400	Full Take
S1215417262	S. Ten Mile Rd, Meridian, ID 83642	RUT	10-Irrigated Ag	125+32	129+07	LT	375	165	61875	\$ 0.03	\$ 5.00		\$ 309,400		
S1214325410	980 S. Ten Mile Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	129+55	142+11	T&R	1256	69.39	87154	\$ 1.09	\$ 5.00	\$ 148,000	\$ 583,800	\$ 291,900	Full Take
S1214325500	S. Ten Mile Rd, Meridian, ID 83642	RUT	10-Irrigated Ag	129+55	138+25	LT	870	800	696000	\$ 0.02	\$ 5.00		\$ 3,480,000		
S1215417210	785 S. Ten Mile Rd, Meridian, ID 83642	RUT	120-Residential Tract	141+64	144+01	LT	237	35	8295	\$ 0.46	\$ 5.00		\$ 41,500		
S1214325500	S. Ten Mile Rd, Meridian, ID 83642	RUT	10-Irrigated Ag	138+25	143+92	T&R	567	200	113400	\$ 0.02	\$ 5.00		\$ 567,000		
Total (18)									2376159	\$ 5.00		\$ 195,200	#####	\$ 533,300	(2)Full Take

Interchange Quantities

QUANTITY CALC.											
Item No.	From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments	
<b>1. Grading (Earthwork)</b>											
Clear & Grub, Demolition:											
	EB (Off+On) Ramps (A-B & B-C)	13+37	45+43	3206	127	ACRE	9.36	\$ 5,000.00	\$ 46,800		
	WB (On+Off) Ramps (D-A & C-D)	14+56	46+62	3206	109	ACRE	8.01	\$ 5,000.00	\$ 40,100		
	TenMile Rd	100+00	144+00	4400	235	ACRE	23.77	\$ 5,000.00	\$ 118,900		
	Sub Total						41.14		\$ 205,800		
Roadway Excavation incl. Haul:											
	EB (Off+On) Ramps (A-B & B-C)	13+37	45+43	3206		YD <sup>3</sup>	2355	\$ 5.00	\$ 11,800		
	WB (On+Off) Ramps (D-A & C-D)	14+56	46+62	3206		YD <sup>3</sup>	915	\$ 5.00	\$ 4,600		
	TenMile Rd	100+00	144+00	4400		YD <sup>3</sup>	6949	\$ 5.00	\$ 34,700		
	Sub Total						10219		\$ 51,100		
Borrow:											
	EB (Off+On) Ramps (A-B & B-C)	13+37	45+43	3206		YD <sup>3</sup>	181772	\$ 10.00	\$ 1,817,700		
	WB (On+Off) Ramps (D-A & C-D)	14+56	46+62	3206		YD <sup>3</sup>	111765	\$ 10.00	\$ 1,117,700		
	TenMile Rd	100+00	144+00	4400		YD <sup>3</sup>	655984	\$ 10.00	\$ 6,559,800		
	Sub Total			10812			949521		\$ 9,495,200		
Embankment Compaction:											
	Sub Total	00+00	00+00	10812		YD <sup>3</sup>	949521	\$ 3.00	\$ 2,848,600		
	Borrow & Compaction Total:								\$ 12,343,800		
<b>2. Structures</b>											
Retaining Walls:											
		-	-	0		FT <sup>2</sup>	0	\$ 50.00	\$ -		
	Sub Total								\$ -		
Bridges & Box Culverts:											
	TenMile Rd Box Culvert	103+91	104+21	30	90	FT <sup>2</sup>	2700	\$ 80.00	\$ 216,000		
	TenMile Rd Box Culvert	107+12	107+42	30	90	FT <sup>2</sup>	2700	\$ 80.00	\$ 216,000		
	TenMile Rd Box Culvert	112+55	112+85	30	90	FT <sup>2</sup>	2700	\$ 80.00	\$ 216,000		

Interchange Quantities

<b>QUANTITY CALC.</b>											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
	TenMile Rd Box Culvert	143+78	143+92	24	90		FT <sup>2</sup>	2160	\$ 80.00	\$ 172,800	
	TenMile Rd Bridge overpass I-84	126+90	129+60	270	90		FT <sup>2</sup>	24300	\$ 120.00	\$ 2,916,000	
	Sub Total									\$ 3,736,800	
	<b>3. Pavement Surfacing &amp; Base</b>										
	EB (Off+On) Ramps (A-B & B-C) ACP CL B	13+37	45+43	3206	30	0.5	T	3651	\$ 70.00	\$ 255,600	
	WB (On+Off) Ramps (D-A & C-D) ACP CL B	14+56	46+62	3206	30	0.5	T	3651	\$ 70.00	\$ 255,600	
	TenMile Rd Asphalt Concrete Pavement (ACP) Class B	100+00	144+00	4400	72	0.5	T	12027	\$ 70.00	\$ 841,900	
	Sub Total									\$ 1,353,100	
	EB (Off+On) Ramps (A-B & B-C) CSBC	13+37	45+43	3206	40	0.75	YD <sup>3</sup>	3562	\$ 40.00	\$ 142,500	
	WB (On+Off) Ramps (D-A & C-D) CSBC	14+56	46+62	3206	40	0.75	YD <sup>3</sup>	3562	\$ 40.00	\$ 142,500	
	TenMile Rd Crushed Surface Base Course (CSBC)	100+00	144+00	4400	90	0.75	YD <sup>3</sup>	11000	\$ 40.00	\$ 440,000	
	Sub Total									\$ 725,000	
	<b>4. Drainage &amp; Irrigation</b>										
	Drainage:										
	EB (Off+On) Ramps	13+37	45+43	3206	30		YD <sup>2</sup>	10687	\$ 10.00	\$ 106,900	
	WB (On+Off) Ramps	14+56	46+62	3206	30		YD <sup>2</sup>	10687	\$ 10.00	\$ 106,900	
	TenMile Rd	100+00	144+00	4400	72		YD <sup>2</sup>	35200	\$ 10.00	\$ 352,000	
	Sub Total									\$ 565,800	
	Irrigation:										
	EB (Off+On) Ramps	13+37	45+43	3206	30		YD <sup>2</sup>	10687	\$ 5.00	\$ 53,400	
	WB (On+Off) Ramps	14+56	46+62	3206	30		YD <sup>2</sup>	10687	\$ 5.00	\$ 53,400	
	TenMile Rd	100+00	144+00	4400	72		YD <sup>2</sup>	35200	\$ 5.00	\$ 176,000	
	Sub Total									\$ 282,800	
	<b>5. Roadside Development</b>										

Interchange Quantities

QUANTITY CALC.											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
	Seeding, Fertilizer, and Mulching EB (Off+On) Ramps	13+37	45+43	3206	87		ACRE	6.41	\$ 5,000.00	\$ 32,100	
	Seeding, Fertilizer, and Mulching WB (On+Off) Ramps	14+56	46+62	3206	69		ACRE	5.07	\$ 5,000.00	\$ 25,400	
	Seeding, Fertilizer, and Mulching TenMile Rd	100+00	144+00	4400	145		ACRE	14.68	\$ 5,000.00	\$ 73,400	
	Sub Total									\$ 130,900	
	Temporary Water and Pollution Control EB (Off+On) Rm	13+37	45+43	3206	127		ACRE	9.36	\$ 2,000.00	\$ 18,700	
	Temporary Water and Pollution Control WB (Off+On) Rm	14+56	46+62	3206	109		ACRE	8.01	\$ 2,000.00	\$ 16,000	
	Temporary Water and Pollution Control TenMile Rd	100+00	144+00	4400	235		ACRE	23.77	\$ 2,000.00	\$ 47,500	
	Sub Total									\$ 82,200	
	Planting EB (Off+On) Ramps (A-B & B-C)	13+37	45+43	3206			ACRE	6.41	\$ 9,000.00	\$ 57,700	
	Planting WB (On+Off) Ramps (D-A & C-D)	14+56	46+62	3206			ACRE	5.07	\$ 9,000.00	\$ 45,600	
	Planting TenMile Rd	100+00	144+00	4400			ACRE	14.68	\$ 9,000.00	\$ 132,100	
	Sub Total									\$ 235,400	
	<b>6. Traffic Services &amp; Safety</b>										
	Concrete Barrier	-	-	0			FT	0	\$ 40.00	\$ -	
	Sub Total									\$ -	
	TenMile Rd Cement Concrete Sidewalk	100+00	144+00	4400	15		YD <sup>2</sup>	7333	\$ 45.00	\$ 330,000	
	Sub Total									\$ 330,000	
	Signal TenMile Rd @ EB (Off+On) Ramps (A-B & B-C)	124+20	124+20				EACH		\$ 200,000.00	\$ 200,000	
	Signal TenMile Rd @ WB (On+Off) Ramps (D-A & C-D)	132+30	132+30				EACH		\$ 200,000.00	\$ 200,000	
	Sub Total									\$ 400,000	
	Illumination EB (Off+On) Ramps (A-B & B-C)	13+37	45+43	3206			EACH	16	\$ 5,000.00	\$ 80,200	
	Illumination WB (On+Off) Ramps (D-A & C-D)	14+56	46+62	3206			EACH	16	\$ 5,000.00	\$ 80,200	
	Illumination TenMile Rd	100+00	144+00	4400			EACH	22	\$ 5,000.00	\$ 110,000	
	Sub Total									\$ 270,400	
	Signing EB (Off+On) Ramps (A-B & B-C)	13+37	45+43	3206			EACH	321	\$ 70.00	\$ 22,400	
	Signing WB (On+Off) Ramps (D-A & C-D)	14+56	46+62	3206			EACH	321	\$ 70.00	\$ 22,400	

Interchange Quantities

<b>QUANTITY CALC.</b>											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
	Signing TenMile Rd	100+00	144+00	4400			EACH	440	\$ 70.00	\$ 30,800	
	Sub Total									\$ 75,600	
	Pavement Marking EB (Off+On) Ramps (A-B & B-C)	13+37	45+43	3206			FT	6412	\$ 1.00	\$ 6,400	
	Pavement Marking WB (On+Off) Ramps (D-A & C-D)	14+56	46+62	3206			FT	6412	\$ 1.00	\$ 6,400	
	Pavement Marking TenMile Rd	100+00	144+00	4400			FT	35200	\$ 1.00	\$ 35,200	
	Sub Total									\$ 48,000	
	Signing & Striping Total									\$ 123,600	
	Fencing EB (Off+On) Ramps (A-B & B-C)	13+37	45+43	3206			FT	3206	\$ 25.00	\$ 80,200	
	Fencing WB (On+Off) Ramps (D-A & C-D)	14+56	46+62	3206			FT	3206	\$ 25.00	\$ 80,200	
	Fencing TenMile Rd	100+00	144+00	4400			FT	0	\$ 25.00	\$ -	
	Sub Total									\$ 160,400	
	<b>7. Construction Traffic Control</b>										
	Temporary Traffic Control EB (Off+On) Ramps	13+37	45+43	3206			FT	3206	\$ 40.00	\$ 128,200	
	Temporary Traffic Control WB (On+Off) Ramps	14+56	46+62	3206			FT	3206	\$ 40.00	\$ 128,200	
	Temporary Traffic Control TenMile Rd	100+00	144+00	4400			FT	4400	\$ 80.00	\$ 352,000	
	Sub Total									\$ 608,400	
	<b>8. Utilities</b>										
	Utilities EB (Off+On) Ramps	13+37	45+43	3206			FT	3206	\$ 8.00	\$ 25,600	
	Utilities WB (On+Off) Ramps	14+56	46+62	3206			FT	3206	\$ 8.00	\$ 25,600	
	Utilities TenMile Rd	100+00	144+00	4400			FT	4400	\$ 24.00	\$ 105,600	
	Sub Total									\$ 156,800	

APPENDIX H

COST ESTIMATE SUMMARY

I-84: 6-LANES WIDENING: TEN MILE ROAD TO MERIDIAN ROAD

# TEN-MILE ROAD INTERCHANGE STUDY I-84 6-LANE WIDENING COST ESTIMATE

Date: 6/23/2005

I. RIGHT OF WAY		Rounded Totals
1. Year 2005 Assessment	\$ 668,200	
2. Relocation and Miscellaneous Year 2005 Market Value	\$ -	
	120 % of lines 1+2	\$ 802,000
		\$ 900,000
II. CONSTRUCTION		
1. Grading (Earthwork)		
Clear & Grub, Demolition	\$ 135,100	
Roadway Excavation	\$ 142,500	
Borrow & Compaction	\$ 195,000	
		\$ 473,000
2. Structures		
Bridges & Box Culverts	\$ 336,000	
Retaining Walls	\$ -	
		\$ 336,000
3. Pavement Surfacing & Base		
Paving Type: ACP	\$ 1,753,800	
Base Type: CSBC	\$ 888,800	
		\$ 2,643,000
4. Drainage & Irrigation		
Drainage	\$ 666,600	
Irrigation	\$ 333,400	
		\$ 1,000,000
5. Roadside Development		
Seeding, Fertilizer, and Mulching	\$ 66,300	
Temp. Water & Pollution Control	\$ 54,100	
Planting	\$ 119,400	
		\$ 240,000
6. Traffic Services & Safety		
Concrete sidewalk	\$ -	
Signals	\$ -	
Illumination	\$ 500,000	
Signaling & Striping	\$ 160,000	
Fencing	\$ 500,000	
		\$ 1,160,000
7. Construction Traffic Control		
		\$ 800,000
8. Utilities		
		\$ 160,000
9. Mobilization		
	10% of Lines 1 to 8	\$ 681,000
10. Contingencies & Miscellaneous		
	30% of Lines 1 to 9	\$ 2,248,000
11. Construction Engineering		
	12% of Lines 1 to 10	\$ 1,169,000
12. CONSTRUCTION TOTAL:		
	Lines 1 to 11	\$ 10,910,000
		\$ 11,000,000
III. PRELIMINARY ENGINEERING & ENVIRONMENTAL		
	15% of Line 12	\$ 1,637,000
		\$ 1,700,000
IV. TOTAL ESTIMATED COST - Lines I, II and III (2005 Dollars)		
		\$ 13,350,000
		\$ 13,600,000

RIGHT OF WAY CALC. (Ada County Assessor Records):															
Parcel No.	Address	Zone Code	State Category_Code	From STA	To STA	Side LT RT	Length (FT)	Width (FT)	Area Take (FT <sup>2</sup> )	Land Assess / (FT <sup>2</sup> )	Land Cost / (FT <sup>2</sup> )	Structure	Total Assess	Relocation & Miscel.	Comments
S1214346700	W. Overland Rd, Meridian, ID 83642	RUT	180-Other Rural Land	240+60	253+90	RT	1340	15	20100	\$ 0.69	\$ 5.00		\$ 100,500		
S1214438416	2390 W. Overland Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	253+90	255+30	RT	140	15	2100	\$ 1.61	\$ 5.00		\$ 10,500		
S1214438414	2090 W. Overland Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	255+30	264+00	RT	870	15	13050	\$ 1.61	\$ 5.00		\$ 65,300		
S1214449030	1690 W. Overland Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	276+90	280+30	RT	340	15	5100	\$ 1.61	\$ 5.00		\$ 25,500		
S1213336176	1580 W. Overland Rd, Meridian, ID 83642	1-L	210-Com Lot or Tract	281+50	286+70	RT	520	10	5200	\$ 1.55	\$ 5.00		\$ 26,000		
S1213336005	W. Overland Rd, Meridian, ID 83642	1-L	10-Irrigated Ag	286+70	293+70	RT	700	15	10500	\$ 0.02	\$ 5.00		\$ 52,500		
S1213346904	W. Overland Rd, Meridian, ID 83642	1-L	220-Ind Lot or Tract	293+70	304+60	RT	1090	15	16350	\$ 1.72	\$ 5.00		\$ 81,800		
S1213346987	W. Overland Rd, Meridian, ID 83642	1-L	220-Ind Lot or Tract	304+60	307+10	RT	250	15	3750	\$ 1.73	\$ 5.00		\$ 18,800		
S1213438602	700 W. Overland Rd, Meridian, ID 83642	1-L	130-Commercial Tract	307+10	312+20	RT	510	20	10200	\$ 2.88	\$ 5.00		\$ 51,000		
R4239770600	S. Blue Marlin Ln, Meridian, ID 83642	C-G	210-Com Lot or Tract	312+20	317+00	RT	480	20	9600	\$ 4.02	\$ 5.00		\$ 48,000		
S1214438416	2390 W. Overland Rd, Meridian, ID 83642	RUT	100-HomeSite on Ag	260+30	263+50	LT	320	20	6400	\$ 1.61	\$ 5.00		\$ 32,000		
R7192800610	1150 S. Larkspur Ct, Meridian, ID 83642	R1	150-Res Sub Lot	270+50	271+20	LT	70	10	700	\$ 1.26	\$ 5.00		\$ 3,500		
R7192800640	1135 S. Larkspur Ct, Meridian, ID 83642	R1	150-Res Sub Lot	271+20	271+90	LT	70	10	700	\$ 1.25	\$ 5.00		\$ 3,500		
R5135450240	1155 S. Pelican Way, Meridian, ID 83642	R-4	200-Res Lot or Tract	294+00	295+10	LT	110	10	1100	\$ 3.01	\$ 5.00		\$ 5,500		
R5135450250	1141 W. Jacksnipe Dr, Meridian, ID 83642	R-4	200-Res Lot or Tract	295+10	295+90	LT	80	10	800	\$ 3.32	\$ 5.00		\$ 4,000		
R5135450260	1123 W. Jacksnipe Dr, Meridian, ID 83642	R-4	200-Res Lot or Tract	295+90	296+60	LT	70	10	700	\$ 4.17	\$ 5.00		\$ 3,500		
R5135450270	1101 W. Jacksnipe Dr, Meridian, ID 83642	R-4	200-Res Lot or Tract	296+60	297+30	LT	70	10	700	\$ 4.17	\$ 5.00		\$ 3,500		
R5135450280	1085 W. Jacksnipe Dr, Meridian, ID 83642	R-4	200-Res Lot or Tract	297+30	298+00	LT	70	10	700	\$ 4.17	\$ 5.00		\$ 3,500		
R5135450290	1069 W. Jacksnipe Dr, Meridian, ID 83642	R-4	200-Res Lot or Tract	298+00	298+70	LT	70	10	700	\$ 4.17	\$ 5.00		\$ 3,500		
R5135450300	1047 W. Jacksnipe Dr, Meridian, ID 83642	R-4	200-Res Lot or Tract	298+70	299+40	LT	70	10	700	\$ 4.17	\$ 5.00		\$ 3,500		
R5135450310	1025 W. Jacksnipe Dr, Meridian, ID 83642	R-4	200-Res Lot or Tract	299+40	300+20	LT	60	10	600	\$ 4.17	\$ 5.00		\$ 3,000		
R5135450320	999 W. Jacksnipe Dr, Meridian, ID 83642	R-4	200-Res Lot or Tract	300+20	300+90	LT	70	10	700	\$ 4.17	\$ 5.00		\$ 3,500		
R5135450330	975 W. Jacksnipe Dr, Meridian, ID 83642	R-4	200-Res Lot or Tract	300+90	301+60	LT	70	10	700	\$ 4.17	\$ 5.00		\$ 3,500		
R5135450340	953 W. Jacksnipe Dr, Meridian, ID 83642	R-4	200-Res Lot or Tract	301+60	302+20	LT	60	10	600	\$ 4.17	\$ 5.00		\$ 3,000		
R5135450350	931 W. Jacksnipe Dr, Meridian, ID 83642	R-4	200-Res Lot or Tract	302+20	302+90	LT	70	10	700	\$ 4.17	\$ 5.00		\$ 3,500		
R5135450360	915 W. Jacksnipe Dr, Meridian, ID 83642	R-4	200-Res Lot or Tract	302+90	303+60	LT	70	10	700	\$ 4.17	\$ 5.00		\$ 3,500		
R5135450370	893 W. Jacksnipe Dr, Meridian, ID 83642	R-4	200-Res Lot or Tract	303+60	304+30	LT	70	10	700	\$ 4.17	\$ 5.00		\$ 3,500		
R5135450380	871 W. Jacksnipe Dr, Meridian, ID 83642	R-4	200-Res Lot or Tract	304+30	305+10	LT	80	10	800	\$ 3.41	\$ 5.00		\$ 4,000		
R5135450390	847 W. Jacksnipe Dr, Meridian, ID 83642	R-4	200-Res Lot or Tract	305+10	306+20	LT	110	10	1100	\$ 3.62	\$ 5.00		\$ 5,500		
S1213428300	Johnson Ln, Meridian, ID 83642	RUT	10-Irrigated Ag	310+00	320+30	LT	1030	15	15450	\$ 0.02	\$ 5.00		\$ 77,300		
S1213417705	W. Waltman Dr, Meridian, ID 83642	RUT	10-Irrigated Ag	320+30	321+50	LT	120	20	2400	\$ 0.02	\$ 5.00		\$ 12,000		
Total (31)									133600	\$ 5.00		\$ -	\$ 668,200	\$ -	(0)Full Take

QUANTITY CALC.											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
<b>1. Grading (Earthwork)</b>											
Clear & Grub, Demolition:											
	I-84 EB	240+00	340+00	10000	58		ACRE	13.33	\$ 5,000.00	\$ 66,600	
	I-84 WB	240+00	340+00	10000	60		ACRE	13.71	\$ 5,000.00	\$ 68,500	
	Sub Total							27.03		\$ 135,100	
Roadway Excavation incl. Haul:											
	I-84 EB	240+00	340+00	10000			YD <sup>3</sup>	12800	\$ 5.00	\$ 64,000	
	I-84 WB	240+00	340+00	10000			YD <sup>3</sup>	15700	\$ 5.00	\$ 78,500	
	Sub Total							28500		\$ 142,500	
Borrow:											
	I-84 EB	240+00	340+00	10000			YD <sup>3</sup>	7900	\$ 10.00	\$ 79,000	
	I-84 WB	240+00	340+00	10000			YD <sup>3</sup>	7100	\$ 10.00	\$ 71,000	
	Sub Total			20000				15000		\$ 150,000	
Embankment Compaction:											
	Sub Total	240+00	340+00	20000			YD <sup>3</sup>	15000	\$ 3.00	\$ 45,000	
Borrow & Compaction Total:										\$ 195,000	
<b>2. Structures</b>											
Retaining Walls:											
		-	-	0		0	FT <sup>2</sup>	0	\$ 50.00	\$ -	
	Sub Total									\$ -	
Bridges & Box Culverts:											
	I-84 EB Box Culvert	240+80	241+00	20	30		FT <sup>2</sup>	600	\$ 80.00	\$ 48,000	
	I-84 WB Box Culvert	240+80	241+00	20	30		FT <sup>2</sup>	600	\$ 80.00	\$ 48,000	
	I-84 EB Box Culvert	293+50	293+70	20	30		FT <sup>2</sup>	600	\$ 80.00	\$ 48,000	
	I-84 WB Box Culvert	293+50	293+70	20	30		FT <sup>2</sup>	600	\$ 80.00	\$ 48,000	
	I-84 EB Box Culvert	320+00	320+30	30	30		FT <sup>2</sup>	900	\$ 80.00	\$ 72,000	
	I-84 WB Box Culvert	320+00	320+30	30	30		FT <sup>2</sup>	900	\$ 80.00	\$ 72,000	

<b>QUANTITY CALC.</b>											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
	Sub Total									\$ 336,000	
	<b>3. Pavement Surfacing &amp; Base</b>										
	I-84 EB Asphalt Concrete Pavement (ACP) Class B	240+00	340+00	10000	22	0.75	T	12528	\$ 70.00	\$ 876,900	
	I-84 WB Asphalt Concrete Pavement (ACP) Class B	240+00	340+00	10000	22	0.75	T	12528	\$ 70.00	\$ 876,900	
	Sub Total									\$ 1,753,800	
	I-84 EB Crushed Surface Base Course (CSBC)	240+00	340+00	10000	30	1	YD <sup>3</sup>	11111	\$ 40.00	\$ 444,400	
	I-84 WB Crushed Surface Base Course (CSBC)	240+00	340+00	10000	30	1	YD <sup>3</sup>	11111	\$ 40.00	\$ 444,400	
	Sub Total									\$ 888,800	
	<b>4. Drainage &amp; Irrigation</b>										
	Drainage:										
	I-84 EB	240+00	340+00	10000	30		YD <sup>2</sup>	33333	\$ 10.00	\$ 333,300	
	I-84 WB	240+00	340+00	10000	30		YD <sup>2</sup>	33333	\$ 10.00	\$ 333,300	
	Sub Total									\$ 666,600	
	Irrigation:										
	TenMile Rd	240+00	340+00	10000	30		YD <sup>2</sup>	33333	\$ 5.00	\$ 166,700	
	TenMile Rd	240+00	340+00	10000	30		YD <sup>2</sup>	33333	\$ 5.00	\$ 166,700	
	Irrigation									\$ 333,400	
	<b>5. Roadside Development</b>										
	Seeding, Fertilizer, and Mulching I-84 EB	240+00	340+00	10000	28		ACRE	6.44	\$ 5,000.00	\$ 32,200	
	Seeding, Fertilizer, and Mulching I-84 WB	240+00	340+00	10000	30		ACRE	6.82	\$ 5,000.00	\$ 34,100	
	Sub Total									\$ 66,300	
	Temporary Water and Pollution Control I-84 EB	240+00	340+00	10000	58		ACRE	13.33	\$ 2,000.00	\$ 26,700	
	Temporary Water and Pollution Control I-84 WB	240+00	340+00	10000	60		ACRE	13.71	\$ 2,000.00	\$ 27,400	

QUANTITY CALC.											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
	Sub Total									\$ 54,100	
	Planting I-84 EB	240+00	340+00	10000			ACRE	6.44	\$ 9,000.00	\$ 58,000	
	Planting I-84 WB	240+00	340+00	10000			ACRE	6.82	\$ 9,000.00	\$ 61,400	
	Sub Total									\$ 119,400	
	<b>6. Traffic Services &amp; Safety</b>										
	Concrete Barrier	-	-	0			FT	0	\$ 40.00	\$ -	
	Sub Total									\$ -	
	Cement Concrete Sidewalk I-84	240+00	340+00	10000	0		YD <sup>2</sup>	0	\$ 45.00	\$ -	
	Sub Total									\$ -	
	Signal I-84	240+00	340+00				EACH		\$ -	\$ -	
	Sub Total									\$ -	
	Illumination I-84 EB	240+00	340+00	10000			EACH	50	\$ 5,000.00	\$ 250,000	
	Illumination I-84 WB	240+00	340+00	10000			EACH	50	\$ 5,000.00	\$ 250,000	
	Sub Total									\$ 500,000	
	Signing I-84 EB	240+00	340+00	10000			EACH	1000	\$ 60.00	\$ 60,000	
	Signing I-84 WB	240+00	340+00	10000			EACH	1000	\$ 60.00	\$ 60,000	
	Sub Total									\$ 120,000	
	Pavement Marking I-84 EB	240+00	340+00	10000			FT	20000	\$ 1.00	\$ 20,000	
	Pavement Marking I-84 WB	240+00	340+00	10000			FT	20000	\$ 1.00	\$ 20,000	
	Sub Total									\$ 40,000	
	Signing and Striping Total									\$ 160,000	
	Fencing I-84 EB	240+00	340+00	10000			FT	10000	\$ 25.00	\$ 250,000	
	Fencing I-84 WB	240+00	340+00	10000			FT	10000	\$ 25.00	\$ 250,000	
	Sub Total									\$ 500,000	

<b>QUANTITY CALC.</b>											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
	<b>7. Construction Traffic Control</b>										
	Temporary Traffic Control I-84 EB	240+00	340+00	10000			FT	10000	\$ 40.00	\$ 400,000	
	Temporary Traffic Control I-84 WB	240+00	340+00	10000			FT	10000	\$ 40.00	\$ 400,000	
	Sub Total									\$ 800,000	
	<b>8. Utilities</b>										
	Utilities I-84 EB	240+00	340+00	10000			FT	10000	\$ 8.00	\$ 80,000	
	Utilities I-84 WB	240+00	340+00	10000			FT	10000	\$ 8.00	\$ 80,000	
	Sub Total									\$ 160,000	

APPENDIX I

COST ESTIMATE SUMMARY

INTERIM IMPROVEMENTS TO MERIDIAN EB RAMP

# TEN-MILE ROAD INTERCHANGE STUDY INTERIM IMPROVEMENTS MERIDIAN EB RAMPS COST ESTIMATE

Date: 6/23/2005

I. RIGHT OF WAY		Rounded Totals
1. Year 2005 Assessment	\$ -	-
2. Relocation and Miscellaneous	\$ -	-
Year 2005 Market Value	120 % of lines 1+2	-
<b>II. CONSTRUCTION</b>		
1. Grading (Earthwork)		
Clear & Grub, Demolition	\$ 32,400	
Roadway Excavation	\$ 27,100	
Borrow & Compaction	\$ 116,700	
		\$ 176,000
2. Structures		
Bridges & Box Culverts	\$ -	
Retaining Walls	\$ 280,000	
		\$ 280,000
3. Pavement Surfacing & Base		
Paving Type: ACP C.L.B	\$ 348,300	
Base Type: CSBC	\$ 198,200	
		\$ 547,000
4. Drainage & Irrigation		
Drainage	\$ 169,900	
Irrigation	\$ 85,000	
		\$255,000
5. Roadside Development		
Seeding, Fertilizer, and Mutching	\$ 8,900	
Temp. Water & Pollution Control	\$ 12,900	
Planting	\$ 16,100	
		\$ 38,000
6. Traffic Services & Safety		
Concrete sidewalk	\$ -	
Signals	\$ -	
Illumination	\$ 159,300	
Signing & Striping	\$ 57,300	
Fencing	\$ -	
		\$ 217,000
7. Construction Traffic Control		
		\$ 254,800
8. Utilities		
		\$ 51,000
9. Mobilization		
10% of Lines 1 to 8		\$ 182,000
10. Contingencies & Miscellaneous		
30% of Lines 1 to 9		\$ 600,000
11. Construction Engineering		
12% of Lines 1 to 10		\$ 312,000
12. CONSTRUCTION TOTAL:	Lines 1 to 11	\$ 2,913,000
<b>III. PRELIMINARY ENGINEERING &amp; ENVIRONMENTAL</b>		
	15% of Line 12	\$ 437,000
		\$ 500,000
<b>IV. TOTAL ESTIMATED COST - Lines I, II and III (2005 Dollars)</b>		\$ 3,350,000
		\$ 3,500,000

RIGHT OF WAY CALC. (Ada County Assessor Records):														
Parcel No.	Address	Zone Code	State Category_Code	From STA	To STA	Side LT/RT	Length (FT)	Width (FT)	Area Take (FT <sup>2</sup> )	Land_Cost / (FT <sup>2</sup> )	Structures	Total Assessment	Relocation & Miscel.	Comments
							1	1	1	\$ 0.02		\$ -	\$ -	
Total (0)									1	\$ -	\$ -	\$ -	\$ -	(0)Full Take

QUANTITY CALC.											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
<b>1. Grading (Earthwork)</b>											
Clear & Grub, Demolition:											
	EB Loop Ramp	30+00	55+11	2511	62		ACRE	3.57	\$ 5,000.00	\$ 17,900	
	EB On-Ramp	15+40	54+00	3860	33		ACRE	2.90	\$ 5,000.00	\$ 14,500	
	Sub Total							6.47		\$ 32,400	
Roadway Excavation incl. Haul:											
	EB Loop Ramp	30+00	55+11	2511			YD <sup>3</sup>	4533	\$ 5.00	\$ 22,700	
	EB On-Ramp	15+40	54+00	3860			YD <sup>3</sup>	871	\$ 5.00	\$ 4,400	
	Sub Total							5404		\$ 27,100	
Borrow:											
	EB Loop Ramp	30+00	55+11	2511			YD <sup>3</sup>	5862	\$ 10.00	\$ 58,600	
	EB On-Ramp	15+40	54+00	3860			YD <sup>3</sup>	3120	\$ 10.00	\$ 31,200	
	Sub Total			6371				8982		\$ 89,800	
Embankment Compaction:											
	Sub Total	00+00	00+00	6371			YD <sup>3</sup>	8982	\$ 3.00	\$ 26,900	
	Borrow & Compaction Total:									\$ 116,700	
<b>2. Structures</b>											
Retaining Walls:											
	EB Loop Ramp	39+40	42+20	280		20	FT <sup>2</sup>	5600	\$ 50.00	\$ 280,000	
	Sub Total									\$ 280,000	
Bridges & Box Culverts:											
	EB Loop Ramp	-	-	0	0		FT <sup>2</sup>	0	\$ 80.00	\$ -	
	Sub Total									\$ -	
<b>3. Pavement Surfacing &amp; Base</b>											

QUANTITY CALC.											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
	EB Loop Ramp Asphalt Concrete Pavement (ACP) Class B	30+00	55+11	2511	24	0.5	T	2288	\$ 60.00	\$ 137,300	
	EB On-Ramp Asphalt Concrete Pavement (ACP) Class B	15+40	54+00	3860	24	0.5	T	3517	\$ 60.00	\$ 211,000	
	Sub Total									\$ 348,300	
	EB Loop Ramp Crushed Surface Base Course (CSBC)	30+00	55+11	2511	32	0.75	YD <sup>3</sup>	2232	\$ 35.00	\$ 78,100	
	EB On-Ramp Crushed Surface Base Course (CSBC)	15+40	54+00	3860	32	0.75	YD <sup>3</sup>	3431	\$ 35.00	\$ 120,100	
	Sub Total									\$ 198,200	
	<b>4. Drainage &amp; Irrigation</b>										
	Drainage:										
	EB Loop Ramp	30+00	55+11	2511	24		YD <sup>2</sup>	6696	\$ 10.00	\$ 67,000	
	EB On-Ramp	15+40	54+00	3860	24		YD <sup>2</sup>	10293	\$ 10.00	\$ 102,900	
	Sub Total									\$ 169,900	
	Irrigation:										
	EB Loop Ramp	30+00	55+11	2511	24		YD <sup>2</sup>	6696	\$ 5.00	\$ 33,500	
	EB On-Ramp	15+40	54+00	3860	24		YD <sup>2</sup>	10293	\$ 5.00	\$ 51,500	
	Irrigation									\$ 85,000	
	<b>5. Roadside Development</b>										
	Seeding, Fertilizer, and Mulching EB Loop Ramp	30+00	55+11	2511	30		ACRE	1.73	\$ 5,000.00	\$ 8,600	
	Seeding, Fertilizer, and Mulching EB On-Ramp	15+40	54+00	3860	1		ACRE	0.07	\$ 5,000.00	\$ 300	
	Sub Total									\$ 8,900	
	Temporary Water and Pollution Control EB Loop Ramp	30+00	55+11	2511	62		ACRE	3.57	\$ 2,000.00	\$ 7,100	
	Temporary Water and Pollution Control On-Ramp	15+40	54+00	3860	33		ACRE	2.90	\$ 2,000.00	\$ 5,800	
	Sub Total									\$ 12,900	
	Planting EB Loop Ramp	30+00	55+11	2511			ACRE	1.73	\$ 9,000.00	\$ 15,500	
	Planting On-Ramp	15+40	54+00	3860			ACRE	0.07	\$ 9,000.00	\$ 600	
	Sub Total									\$ 16,100	

QUANTITY CALC.											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
<b>6. Traffic Services &amp; Safety</b>											
	Concrete Barrier	-	-	0			FT	0	\$ 40.00	\$ -	
	Sub Total									\$ -	
	EB Loop Ramp Cement Concrete Sidewalk	-	-	0	0		YD <sup>2</sup>	0	\$ 45.00	\$ -	
	Sub Total									\$ -	
	Signal EB Loop Ramp	-	-				EACH	0	\$ 200,000.00	\$ -	
	Sub Total									\$ -	
	Illumination EB Loop Ramp	30+00	55+11	2511			EACH	13	\$ 5,000.00	\$ 62,800	
	Illumination On-Ramp	15+40	54+00	3860			EACH	19	\$ 5,000.00	\$ 96,500	
	Sub Total									\$ 159,300	
	Signing EB Loop Ramp	30+00	55+11	2511			EACH	251	\$ 70.00	\$ 17,600	
	Signing On-Ramp	15+40	54+00	3860			EACH	386	\$ 70.00	\$ 27,000	
	Sub Total									\$ 44,600	
	Pavement Marking EB Loop Ramp	30+00	55+11	2511			FT	5022	\$ 1.00	\$ 5,000	
	Pavement Marking On-Ramp	15+40	54+00	3860			FT	7720	\$ 1.00	\$ 7,700	
	Sub Total									\$ 12,700	
	Signing and Striping Total									\$ 57,300	
	Fencing								\$ 25.00	\$ -	
<b>7. Construction Traffic Control</b>											
	Temporary Traffic Control EB Loop Ramp	30+00	55+11	2511			FT	2511	\$ 40.00	\$ 100,400	
	Temporary Traffic Control On-Ramp	15+40	54+00	3860			FT	3860	\$ 40.00	\$ 154,400	
	Sub Total									\$ 254,800	

QUANTITY CALC.											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
	<b>8. Utilities</b>										
	Utilities EB Loop Ramp	30+00	55+11	2511			FT	2511	\$ 8.00	\$ 20,100	
	Utilities On-Ramp	15+40	54+00	3860			FT	3860	\$ 8.00	\$ 30,900	
	Sub Total									\$ 51,000	

APPENDIX J

COST ESTIMATE SUMMARY

IMPROVEMENTS TO MERIDIAN INTERCHANGE AND WB RAMPs

# TEN-MILE ROAD INTERCHANGE STUDY MERIDIAN INTERCHANGE & WB RAMPS COST ESTIMATE

Date: 6/23/2005

I. RIGHT OF WAY		Rounded Totals
1. Year 2005 Assessment	\$ 1,040,800	
2. Relocation and Miscellaneous	\$ 270,400	
Year 2005 Market Value	120 % of lines 1+2	\$ 1,573,000
		\$ 1,600,000
II. CONSTRUCTION		
1. Grading (Earthwork)		
Clear & Grub, Demolition	\$ 79,400	
Roadway Excavation	\$ 176,500	
Borrow & Compaction	\$ 2,032,300	
		\$ 2,288,000
2. Structures		
Bridges & Box Culverts	\$ 2,700,000	
Retaining Walls	\$ -	
		\$ 2,700,000
3. Pavement Surfacing & Base		
Paving Type: ACP CL.B	\$ 668,100	
Base Type: CSBC	\$ 348,800	
		\$ 1,017,000
4. Drainage & Irrigation		
Drainage	\$ 288,300	
Irrigation	\$ 144,100	
		\$432,000
5. Roadside Development		
Seeding, Fertilizer, and Mulching	\$ 43,300	
Temp. Water & Pollution Control	\$ 31,700	
Planting	\$ 78,100	
		\$ 153,000
6. Traffic Services & Safety		
Concrete sidewalk	\$ 60,000	
Signals	\$ 200,000	
Illumination	\$ 215,200	
Signaling & Striping	\$ 60,200	
Fencing	\$ 131,600	
		\$ 607,000
7. Construction Traffic Control		
		\$ 344,400
8. Utilities		
		\$ 68,900
9. Mobilization		
	10% of Lines 1 to 8	\$ 761,000
10. Contingencies & Miscellaneous		
	30% of Lines 1 to 9	\$ 2,511,000
11. Construction Engineering		
	12% of Lines 1 to 10	\$ 1,306,000
12. CONSTRUCTION TOTAL:		
	Lines 1 to 11	\$ 12,188,000
III. PRELIMINARY ENGINEERING & ENVIRONMENTAL		
	15% of Line 12	\$ 1,828,000
		\$ 1,900,000
IV. TOTAL ESTIMATED COST Lines I, II and III (2005 Dollars)		
		\$ 15,590,000
		\$ 15,700,000

Meridian WB Ramps Right of Way

Meridian WB Ramps RIGHT OF WAY CALC. (Ada County Assessor Records):															
Parcel No.	Address	Zone Code	State Category_Code	From STA	To STA	Side LT RT	Length (FT)	Width (FT)	Area Take (FT <sup>2</sup> )	Land Assess / (FT <sup>2</sup> )	Land Cost/ (FT <sup>2</sup> )	Structure	Total Assess	Relocation & Miscel.	Comments
R1343550300	S PROGRESS AVE MERIDIAN, ID	C-G	250-Common Area	24+50	25+50	RT	100	164.66	16466	\$ 0.30	\$ 5.00		\$ 82,300	\$ <del>41,150</del>	Full Take
R1343550400	S PROGRESS AVE MERIDIAN, ID	C-G	259-Common Area	20+50	25+50	RT	500	183.39	91694	\$ 0.02	\$ 5.00		\$ 458,500	\$ <del>229,250</del>	Full Take
S1213417705	W WALTMAN DR MERIDIAN, ID 83642	RUT	10-Government Exem	20+50	25+50	LT	500	200	100000	\$ 0.02	\$ 5.00		\$ 500,000		
Total (3)									208159	\$ 5.00		\$ -	\$ 1,040,800	\$ <del>270,400</del>	(2)Full Take

Meridian WB Ramps Quantities

QUANTITY CALC.											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
<b>1. Grading (Earthwork)</b>											
Clear & Grub, Demolition:											
	WB Off-Ramp Loop	30+00	55+45	2545	75		ACRE	4.36	\$ 5,000.00	\$ 21,800	
	WB (On+Off) Ramps (D-A & C-D)	9+78	62+42	5264	82		ACRE	9.87	\$ 5,000.00	\$ 49,300	
	Meridian Rd	15+00	23+00	800	90		ACRE	1.65	\$ 5,000.00	\$ 8,300	
	Sub Total							15.88		\$ 79,400	
Roadway Excavation incl. Haul:											
	WB Off-Ramp Loop	30+00	55+45	2545			YD <sup>3</sup>	7861	\$ 5.00	\$ 39,300	
	WB (On+Off) Ramps (D-A & C-D)	9+78	62+42	5264			YD <sup>3</sup>	25431	\$ 5.00	\$ 127,200	
	Meridian Rd	15+00	23+00	800			YD <sup>3</sup>	2000	\$ 5.00	\$ 10,000	
	Sub Total							35292		\$ 176,500	
Borrow:											
	WB Off-Ramp Loop	30+00	55+45	2545			YD <sup>3</sup>	15847	\$ 10.00	\$ 158,500	
	WB (On+Off) Ramps (D-A & C-D)	9+78	62+42	5264			YD <sup>3</sup>	32505	\$ 10.00	\$ 325,100	
	Meridian Rd	15+00	23+00	800			YD <sup>3</sup>	40000	\$ 10.00	\$ 400,000	
	Sub Total			8609				88352		\$ 883,600	
Embankment Compaction:											
	Sub Total	00+00	00+00	8609			YD <sup>3</sup>	88352	\$ 3.00	\$ 265,100	
	Borrow & Compaction Total:									\$ 1,148,700	
<b>2. Structures</b>											
Retaining Walls:											
	-----	-	-	0		0	FT <sup>2</sup>	0	\$ 50.00	\$ -	
	Sub Total									\$ -	
Bridges & Box Culverts:											
	Meridian Rd Bridge overpass I-84	18+00	20+50	250	90		FT <sup>2</sup>	22500	\$ 120.00	\$ 2,700,000	
	Sub Total									\$ 2,700,000	

Meridian WB Ramps Quantities

QUANTITY CALC.											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
<b>3. Pavement Surfacing &amp; Base</b>											
	WB Off-Ramp Loop ACP CL II	30+00	55+45	2545	24	0.5	T	2319	\$ 70.00	\$ 162,300	
	WB (On+Off) Ramps (D-A & C-D) ACP CL II	9+78	62+42	5264	24	0.5	T	4796	\$ 70.00	\$ 335,700	
	Meridian Rd ACP Class II	15+00	23+00	800	80	0.5	T	2430	\$ 70.00	\$ 170,100	
	Sub Total									\$ 668,100	
	WB Off-Ramp Loop CSBC	30+00	55+45	2545	32	0.75	YD <sup>3</sup>	2262	\$ 40.00	\$ 90,500	
	WB (On+Off) Ramps (D-A & C-D) CSBC	9+78	62+42	5264	32	0.75	YD <sup>3</sup>	4679	\$ 40.00	\$ 187,200	
	Meridian Rd Crushed Surface Base Course (CSBC)	15+00	23+00	800	80	0.75	YD <sup>3</sup>	1778	\$ 40.00	\$ 71,100	
	Sub Total									\$ 348,800	
<b>4. Drainage &amp; Irrigation</b>											
	Drainage:										
	WB Off-Ramp Loop	30+00	55+45	2545	24		YD <sup>2</sup>	6787	\$ 10.00	\$ 67,900	
	WB (On+Off) Ramps (D-A & C-D)	9+78	62+42	5264	24		YD <sup>2</sup>	14037	\$ 10.00	\$ 140,400	
	Meridian Rd	15+00	23+00	800	90		YD <sup>2</sup>	8000	\$ 10.00	\$ 80,000	
	Sub Total									\$ 288,300	
	Irrigation:										
	WB Off-Ramp Loop	30+00	55+45	2545	24		YD <sup>2</sup>	6787	\$ 5.00	\$ 33,900	
	WB (On+Off) Ramps (D-A & C-D)	9+78	62+42	5264	24		YD <sup>2</sup>	14037	\$ 5.00	\$ 70,200	
	Meridian Rd	15+00	23+00	800	90		YD <sup>2</sup>	8000	\$ 5.00	\$ 40,000	
	Sub Total									\$ 144,100	
<b>5. Roadside Development</b>											
	Seeding, Fertilizer, and Mulching WB Off- Ramp Loop	30+00	55+45	2545	43		ACRE	2.49	\$ 5,000.00	\$ 12,400	
	Seeding, Fertilizer, and Mulching WB (On+Off) Ramps	9+78	62+42	5264	50		ACRE	6.00	\$ 5,000.00	\$ 30,000	
	Seeding, Fertilizer, and Mulching Meridian Rd	15+00	23+00	800	10		ACRE	0.18	\$ 5,000.00	\$ 900	
	Sub Total									\$ 43,300	

Meridian, WB Ramps Quantities

QUANTITY CALC.											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
	Temporary Water and Pollution Control WB Off Rmp Lp	30+00	55+45	2545	75		ACRE	4.36	\$ 2,000.00	\$ 8,700	
	Temporary Water and Pollution Control WB (Off+On) Rmp	9+78	62+42	5264	82		ACRE	9.87	\$ 2,000.00	\$ 19,700	
	Temporary Water and Pollution Control Meridian Rd	15+00	23+00	800	90		ACRE	1.65	\$ 2,000.00	\$ 3,300	
	Sub Total									\$ 31,700	
	Planting WB Off- Ramp Loop	30+00	55+45	2545			ACRE	2.49	\$ 9,000.00	\$ 22,400	
	Planting WB (On+Off) Ramps (D-A & C-D)	9+78	62+42	5264			ACRE	6.00	\$ 9,000.00	\$ 54,000	
	Planting Meridian Rd	15+00	23+00	800			ACRE	0.18	\$ 9,000.00	\$ 1,700	
	Sub Total									\$ 78,100	
	<b>6. Traffic Services &amp; Safety</b>										
	Concrete Barrler	-	-	0			FT	0	\$ 40.00	\$ -	
	Sub Total									\$ -	
	TenMile Rd Cement Concrete Sidewalk	15+00	23+00	800	15		YD <sup>2</sup>	1333	\$ 45.00	\$ 60,000	
	Sub Total									\$ 60,000	
	Signal Meridian Rd @ WB (On+Off) Ramps (D-A & C-D)	24+50	24+50				EACH		\$ 200,000.00	\$ 200,000	
	Sub Total									\$ 200,000	
	Illumination WB Off-Ramp Loop	30+00	55+45	2545			EACH	13	\$ 5,000.00	\$ 63,600	
	Illumination WB (On+Off) Ramps (D-A & C-D)	9+78	62+42	5264			EACH	26	\$ 5,000.00	\$ 131,600	
	Illumination Meridian Rd	15+00	23+00	800			EACH	4	\$ 5,000.00	\$ 20,000	
	Sub Total									\$ 215,200	
	Signing WB Off-Ramp Loop	30+00	55+45	2545			EACH	255	\$ 70.00	\$ 17,800	
	Signing WB (On+Off) Ramps (D-A & C-D)	9+78	62+42	5264			EACH	526	\$ 70.00	\$ 36,800	
	Signing Meridian Rd	15+00	23+00	800			EACH	80	\$ 70.00	\$ 5,600	
	Sub Total									\$ 60,200	
	Pavement Marking WB Off-Ramp Loop	30+00	55+45	2545			FT	5090	\$ 1.00	\$ 5,100	
	Pavement Marking WB (On+Off) Ramps (D-A & C-D)	9+78	62+42	5264			FT	10528	\$ 1.00	\$ 10,500	
	Pavement Marking Meridian Rd	15+00	23+00	800			FT	6400	\$ 1.00	\$ 6,400	

<b>QUANTITY CALC.</b>											
Item No.		From STA	To STA	Length (FT)	Width (FT)	Height (FT)	Unit	Quantity	Cost/Unit	Total Cost	Comments
	Sub Total									\$ 22,000	
	Signing & Striping Total									\$ 82,200	
	Fencing WB Off-Ramp Loop	30+00	55+45	2545			FT	0	\$ 25.00	\$ -	
	Fencing WB (On+Off) Ramps (D-A & C-D)	9+78	62+42	5264			FT	5264	\$ 25.00	\$ 131,600	
	Fencing Meridian Rd	15+00	23+00	800			FT	0	\$ 25.00	\$ -	
	Sub Total									\$ 131,600	
	<b>7. Construction Traffic Control</b>										
	Temporary Traffic Control WB Off-Ramp Loop	30+00	55+45	2545			FT	2545	\$ 40.00	\$ 101,800	
	Temporary Traffic Control WB (On+Off) Ramps	9+78	62+42	5264			FT	5264	\$ 40.00	\$ 210,600	
	Temporary Traffic Control Meridian Rd	15+00	23+00	800			FT	800	\$ 40.00	\$ 32,000	
	Sub Total									\$ 344,400	
	<b>8. Utilities</b>										
	Utilities WB Off-Ramp Loop	30+00	55+45	2545			FT	2545	\$ 8.00	\$ 20,400	
	Utilities WB (On+Off) Ramps	9+78	62+42	5264			FT	5264	\$ 8.00	\$ 42,100	
	Utilities Meridian Rd	15+00	23+00	800			FT	800	\$ 8.00	\$ 6,400	
	Sub Total									\$ 68,900	